

KASHIPUR MICHAEL MADHUSUDAN MAHAVIDYALAYA

(PERSONAL PROFILE)

Name: Dr. Poushali Roy
Designation: ASSISTANT PROFESSOR
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Educational Qualification:

1. **Graduation:** B.A.(Hons.) in Geography from Asansol Girls' College affiliated to The University of Burdwan, 2004
2. **Post-graduation:** M.A. in Geography from Jawaharlal Nehru University, New Delhi, 2006
3. **M.Phil.:** M.Phil. in Geography from Jawaharlal Nehru University, New Delhi, 2009
4. **Ph.D.:** Ph.D. in Geography from Jawaharlal Nehru University, New Delhi, 2022

List of Research Papers published in National / International Journals / Books / Conference Proceedings with ISBN / ISSN / Impact Factor:

A) Books:

1. (Co-authored by Sreekesh, S.) "Effect of Land Cover on Soil Particle Size and Organic Carbon in the Plough Layer" in Raju, J. (Ed.) *Geostatistical and Geospatial Approaches for the Characterization of Natural Resources in the Environment: Challenges, Processes and Strategies*, Springer International Publishing, Cham, Switzerland, 2016, pp. 385-390.
2. "Application of USLE/GIS Technique for the Assessment of the Effect of Land Slope and Cover on Soil Erosion Susceptibility and Hazard" in Das, T.K. and Mondal, K. (Eds.) *Environmental Degradation and Disaster: A Vision Plan for Sustainable Development*, Avenel Press, Kolkata, 2016, pp. 101-110.

B) Journals:

1. "Application of USLE in a GIS environment to estimate soil erosion in the Irga watershed, Jharkhand", *Physical Geography*, Volume 40, Issue 4, 2019, pp. 361-383. [Impact factor – 2.075 (2021)]

2. “C sequestration potential of cultivated land and Mango orchard in the plough layer of Alfisols in Giridih district of Jharkhand”, *Agropedology*, Volume 26, Issue 1, 2016, pp. 10-21 [NAAS rating – 4.16]
3. “Estimation of SOC Concentration under Different Land Use”, *Journal of Agroecology and Natural Resource Management*, Volume 2, Issue 5, 2015, pp. 351-354.

C) Conference Proceedings:

1. “Detection of Land Use/Land Cover Change and its Impact on Soil Erosion, using Satellite Remote Sensing and GIS”, *Proceedings of International Conference on Energy and Environment*, 2009, pp. 817-821.

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| State Level / National / International Conferences /Seminars /Workshops /Webinar Attended: |
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A) Paper Presentations in Seminars / Conferences / Webinars

1. “Sediment characteristics and yield from an agricultural watershed in the Eastern Plateau Region of India” in the *5th Regional Science and Technology Congress* held on 9th – 10th January, 2023 at Bankura University, West Bengal, India.
2. “Mapping and assessment of soil organic carbon distribution in the Irga watershed, Jharkhand” in the *UGIT’s 11th International Conference on “Climate Change: Environmental and Soil Sustainability – Advanced Geospatial Solutions”* held on 9th – 10th December, 2022 at Bangalore University, Karnataka, India.
3. “Potential of agricultural soils in carbon sequestration” in the *National Conference on “Recent Trends in Biodiversity and Environmental Science (NCRTBES-2022)”* held online on 28th – 29th March, 2022 & organized by the Department of Environmental Science, Indira Gandhi National Tribal University, Amarkantak, Madhya Pradesh, India.
4. “Long-term rainfall trend and meteorological drought variability analysis in the Barakar Valley, India” in the *40th Indian Geographers’ Meet & International Conference on “Water, Sustainability, Livelihood and Climate Change”* held on 14th – 16th March, 2019 at Jawaharlal Nehru University, New Delhi, India.
5. “Integration of USLE and GIS for Prioritizing Soil Erosion Prone Areas in the Irga Watershed, Jharkhand, India” in the *UGIT’s 6th International Conference on “Climate Change and Sustainable Water Resource Management – Innovative Geospatial Solutions”* held on 9th – 11th November, 2017 at Bangalore University, Bangalore, Karnataka, India.
6. “Response of Soil Erosion to the Temporal Variation in Rainfall in the Irga Watershed, Jharkhand” in the *3rd International Conference on Environment and Ecology”* held on 27th – 29th March, 2017 at St. Xavier’s College, Ranchi, Jharkhand, India.
7. “Estimation of Soil Erosion in the Sub-humid, Red Soil Region of India, using USLE Raster Model” in the *24th West Bengal State Science & Technology Congress, 2017*, held on 1st March, 2017 at Kolkata, West Bengal, India.
8. (with S. Sreelesh) “Assessment of Soil Organic Carbon Stock under Different Land Use in the Sub-humid Eco-region of India” in the *IGU Regional Conference 2015: “Geography, Culture*

and Society for Our Future Earth” held on 17th – 21st August, 2015 at Lomonosov Moscow State University, Moscow, Russia.

9. (with S. Sreelesh) “Effect of Land Cover on Soil Particle Size and Organic Carbon in the Plough Layer” in the *16th Annual Conference of International Association for Mathematical Geosciences* held on 17th – 20th October, 2014 in Jawaharlal Nehru University, New Delhi, India.
10. “Can Sustainable Agriculture Ensure Food Security” in the *35th Indian Geographers’ Meet and International Conference* organized by the Institute of Indian Geographers held on 11th – 13th November, 2013 in The University of Burdwan, West Bengal, India.
11. “Detection of Land Use/Land Cover Change and its Impact on Soil Erosion, using Satellite Remote Sensing and GIS” in *EnviroEnergy 2009: International Conference on Energy and Environment* held on 19th – 21st March, 2009 in Chandigarh, India.

B) Participation in Seminars / Conferences / Training Programmes / Workshop / Webinars

• Participation in Seminars / Conferences / Webinar

1. National webinar on “Changing Environment & Sustainable Development in the Himalayan Region” organized by Department of Geography, Nagaland University, Lumami on 26th August, 2022
2. State-level webinar on “Climate Change Impact on Water Resources” organized by Department of Geography, Sukanta Mahavidyalaya, Jalpaiguri, West Bengal on 16th May, 2021
3. One-day National Webinar on “Sustainable Development Goals & COVID-19” organized by Department of Economics, Kashipur Michael Madhusudan Mahavidyalaya, Purulia, West Bengal on 9th September, 2020
4. National Webinar on “Women and Rural Development” organized by Department of Rural Studies in collaboration with IQAC, West Bengal State University, West Bengal on 7th September, 2020
5. International Webinar on “From Cities to Glaciers” organized by Department of Geography, Bankura Zilla Saradamani Mahila Mahavidyapith, West Bengal on 25th July, 2020
6. Webinar Series on “Innovative Research Trends in Contemporary Geography” organized by Department of Geography, East Calcutta Girls’ College, West Bengal on 6th – 12th July, 2020
7. ‘Earth Talks 2020’: One-day Webinar International Webinar on “Climate Change and Earth’s Landscape” organized by Department of Geography, Kazi Nazrul University, West Bengal on 24th June, 2020
8. International Webinar on “COVID-19: Challenges & Opportunities” organized by IQAC, Kashipur Michael Madhusudan Mahavidyalaya, Purulia, West Bengal on 5th June, 2020
9. One-day Webinar on “Living on the Edge with COVID-19” organized by IQAC, Triveni Devi Bhalotia College, Raniganj, West Bengal on 4th June, 2020
10. State level Seminar on “*Remote Sensing for Eco-designing and Restoration Ecology*” held on 22nd January, 2015 in Nistarini College, Purulia, West Bengal, India
11. State level Seminar on “*Ecofeminism*” held on 19th December, 2014 in Nistarini College, Purulia, West Bengal, India.

12. UGC-Sponsored National Seminar “*Two Decades of Economic Reforms in India*” held on 24th September, 2011 in Kashipur Michael Madhusudan Mahavidyalaya, Purulia, West Bengal, India.
13. UGC-Sponsored National Seminar “*Challenges of Common Property Resources*” held on 22nd – 23rd September, 2011 in Kashipur Michael Madhusudan Mahavidyalaya, Purulia, West Bengal, India.
14. UGC-Sponsored National Seminar “*Challenges of Drought in India*” held on 9th – 10th September, 2011 in Kashipur Michael Madhusudan Mahavidyalaya, Purulia, West Bengal, India.

• ***Participation in Training Programmes / Workshops***

1. Workshop on “Remote Sensing, GIS & Field-work” organized by Jagannath Kishore College on 2nd – 3rd April, 2019 in Purulia, West Bengal, India.
2. National Workshop on “Geospatial Data Analysis using Open Source Software” organized by the Department of Geography, School of Sciences, Adamas University, Kolkata from 17th – 19th April, 2018.
3. “Workshop on Framing of Semester based UG Syllabi as per CBCS” organized by Nistarini Women’s College, Purulia in association with Sidho-Kanho-Birsha University on 22nd March, 2017.
4. “Author Workshop” by Elsevier in association with Department of Science and Technology, Government of West Bengal on 2nd December, 2016 in Kolkata, West Bengal, India.
5. DST (Govt. of West Bengal) sponsored Short-Term Course in “*Remote Sensing and GIS*” conducted by the West Bengal State Council of Science & Technology from 9th – 20th May, 2016 in Kolkata, West Bengal, India
6. NAIP (ICAR) sponsored Training Course on “*Predicting Soil Carbon Sequestration in View of Global Warming and Climate Change*” held from 24th February – 8th March, 2012 in the National Bureau of Soil Survey and Land Use Planning, Nagpur, Maharashtra, India
7. “Workshop for Framing UG Syllabus in Geography” organized by Sidho-Kanho-Birsha University on 21st April, 2011 in Purulia, West Bengal, India.
8. EDUSAT-based Six-weeks Basic Training Course on “*Remote Sensing, Geographical Information System and Global Positioning System*” conducted by Indian Institute of Remote Sensing (NRSA), Department of Space, Government of India from 29th January – 9th April, 2007 in Jawaharlal Nehru University, New Delhi, India

• ***Participation in Orientation Programme / Refresher Course***

1. UGC-sponsored Refresher Course (Online) organized by Human Resource Development Centre, Jawaharlal Nehru University, New Delhi during 11th – 23rd July, 2022.
2. UGC-sponsored Refresher Course organized by Human Resource Development Centre, Himachal Pradesh University, Shimla during 20th May – 1st June, 2019.
3. UGC-sponsored Refresher Course organized by Academic Staff College, Jawaharlal Nehru University, New Delhi during 10th February – 7th March, 2014.

4. UGC-sponsored Orientation Course organized by Academic Staff College, Jawaharlal Nehru University, New Delhi during 8th October – 2nd November, 2012.

C) Organization of Seminars / Conferences / Training Programmes / Workshop / Webinars

1. Coordinator (Network Institute – Kashipur M. M. Mahavidyalaya) of IIRS Off-Campus Outreach Certificate Programme (Online Training Course) on “Remote Sensing, Geographical Information System and Global Navigation Satellite System” from 22nd August – 25th November, 2022.
2. Co-Convener of 2nd Invited Lecture Series on Geography organized by Department of Geography, KMMM from 12th – 16th July, 2021.
3. Convener of National Webinar on “The Sustenance of the Sustainable through Sustained Judiciary in India” organized by Department of Geography, KMMM on 5th June, 2021.
4. Convener of 1st Invited Lecture Series on Geography organized by Department of Geography, KMMM from 3rd – 21st June, 2021.
5. Convener of One Day National Webinar on “Environment & Sustainability: Land, Water & Ecosystem Perspective” organized by Department of Geography, KMMM in collaboration with Department of Geography & Geo-Informatics, Pandit Raghunath Murmu Smriti Mahavidyalaya, Bankura on 31st August, 2020.
6. Organizing Secretary of One-day Workshop on “Geomorphological Mapping” organized by Department of Geography, KMMM on 14th March, 2018.
7. Coordinator (Network Institute – Kashipur M. M. Mahavidyalaya) of IIRS Off-Campus Outreach Certificate Programme (Online Training Course) on “Remote Sensing and Digital Image Analysis” from 21st August – 15th September, 2017.
8. Coordinator (Network Institute – Kashipur M. M. Mahavidyalaya) of IIRS Off-Campus Outreach Certificate Programme (Online Training Course) on “Remote Sensing and GIS Applications in Carbon Forestry” from 16th February – 10 March, 2017.
9. Organizing Secretary of State-level Seminar on “Environmental Issues of Lower Gangetic West Bengal” organized by Department of Geography, KMMM on 12th September, 2015.
10. Joint-Organizing Secretary of UGC-sponsored National Conference on “Challenges & Mitigation of Drought in India” organized by Department of Geography, KMMM on 9-10 September, 2011.

Awards and Recognition:

1. Best (Oral) Paper Presentation Award in the 30th West Bengal State Science & Technology Congress-2023 held on 28 February-1 March, 2023 at Science City, Kolkata, West Bengal, India.
2. “Certificate of Merit” in the 5th Regional Science and Technology Congress held on 9th – 10th January, 2023 at Bankura University, West Bengal, India.
3. “Best Paper Presentation” in the UGIT’s 11th International Conference on “Climate Change: Environmental and Soil Sustainability – Advanced Geospatial Solutions” held on 9th – 10th December, 2022 at Bangalore University, Karnataka, India.

4. “Best Paper Award” in the *National Conference on Recent Trends in Biodiversity and Environmental Science (NCRTBES-2022)* held online on March 28-29, 2022 & organized by the Department of Environmental Science, Indira Gandhi National Tribal University, Amarkantak, Madhya Pradesh, India.
5. “Best Technical Paper Presentation Award 2017-18” in *UGIT’s 6th International Conference on Climate Change and Sustainable Water Resource Management – Innovative Geospatial Solutions* held on 9-11 November, 2017 at Bangalore University, Bangalore, Karnataka, India.
6. “Best Presentation Award” in the *3rd International Conference on Environment & Ecology* held on 26-28 March, 2017 at St. Xavier’s College, Ranchi, Jharkhand, India.
7. Best (Oral) Paper Presentation Award in the *24th West Bengal State Science & Technology Congress-2017* held on 28 February-1 March, 2017 at Science City, Kolkata, West Bengal, India.
8. “Outstanding Paper Award” in the *1st Regional Science & Technology Congress-2016, Bardhaman Division, West Bengal* held on 7-8 November, 2016 at Bankura Christian College, West Bengal, India.
9. Senior Research Fellowship (SRF) awarded by the Council of Scientific and Industrial Research (CSIR), India 2008-2010.
10. Junior Research Fellowship (JRF) awarded by the Council of Scientific and Industrial Research (CSIR), India during 2006-2008.

Areas of Specialization in Research / Teaching:

- A) Specialization in Teaching:** Physical Geography, Computer Applications in Geography, Remote Sensing and GIS
- B) In Research:** Geomorphology and Soil Geography

Teaching:

1. **Theory:** Geotectonics, Geomorphology, Climatology, Hydrology, Oceanography, Soil Geography, Population and Settlement, Economic Geography, Geographical Thought, Regional Geography, Geography of India, Regional Development and Planning
2. **Practical:** Topographical Map, Quantitative Techniques in Geography, Computer Applications in Geography, Remote Sensing and GIS
3. **Excursion / Field Survey:** Conduct student excursions; Supervision of undergraduate field reports

Invited Lecture / Foreign Visit:

1. Resource Person for Invited Lecture Series organized by the Department of Geography, Bankura Zilla Saradmoni Mahila Mahavidyapith, Bankura, West Bengal on 11th January, 2023.
Topic of the Lecture: “Soil Erosion and Carbon: Measurement and Modelling”

2. Resource Person for “Training Course in MS Excel & SPSS” (for TS & NTS members of KMMM) organized by the Department of Geography, Kashipur M. M. Mahavidyalaya, during 04th – 9th April, 2022.
3. Resource Person for a lecture on “*Topographical Maps*” at the *Workshop on CBCS in Geography* organized by Nistarini Women’s College in collaboration with Sidho-Kanho-Birsha University on 29th – 30th November, 2017 in Purulia, West Bengal, India.
4. Paper Presentation (with S. Sreekesh) on “Assessment of Soil Organic Carbon Stock under Different Land Use in the Sub-humid Eco-region of India” in the *IGU Regional Conference 2015: Geography, Culture and Society for Our Future Earth* held on 17-21 August, 2015 at Lomonosov Moscow State University, Moscow, Russia.

Other Academic Activities:

- 1. Board of Studies:** Member of UG BoS (Geography), Sidho-Kanho-Birsha University during 2017-19 and 2019-till date
- 2. Course Design:** Actively participated in framing:
 - i. UG (Geography) syllabus of SKBU, Purulia in 2011
 - ii. UG (Geography) syllabus (CBCS) of SKBU, Purulia in 2017

Administrative Activities:

1. Teachers’ Council Secretary 2017-2021
2. Member of IQAC, KMMM during 2012 – till date
3. Member of Admission Committee, 2010-11 to 2017-18
4. Convener of Time-Table & Academic Calender, 2017-18 – till date

Associated with Learned Bodies / Association / Society / Organization:

1. Life Member of Indian Society of Soil Survey and Land Use Planning, NBSS&LUP, Nagpur, India (LM / R038)
 2. Life Member of Institute of Indian Geographers, Department of Geography, University of Pune, India (L 863)
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