

CURRICULUM VITAE

Dr. JAJNASENI ROUT

Asst. Professor

Dept. of Geography

Ravenshaw University, Cuttack

Email - jajnasenirout@gmail.com

jajnasenirout@ravenshawuniversity.ac.in

Phone No – 9437449922

LinkedIn: Jajnaseni Rout

Google Scholar: Dr. Jajnaseni Rout



Specialization	Physical Geography (Remote Sensing & GIS, Coastal Geomorphology, Wetland and Watershed Management, Natural Resource Management, Climate Change)
Educational Qualification	<ul style="list-style-type: none">• Ph.D in Applied Geography at Ravenshaw University, Odisha.• P.G Diploma in Remote Sensing & GIS, Dept. of Earth Science, Sambalpur University.• M.PHIL in Applied Geography at Ravenshaw University.• Certificate course in Remote Sensing & GIS from Indian Institute of Remote Sensing (IIRS), Dehradun.• P.G in Applied Geography at Ravenshaw (auto) College.
Experience	<ul style="list-style-type: none">• 4 Years experience as Assistant Professor in the department of Geography of Ravenshaw University, Cuttack from 20th May 2022 to till date.• 1 year 5 Months experience as Guest faculty in the department of Geography of Ravenshaw University, Cuttack from January 2021 to 19th May 2022.• 9 Years research experience under World Bank funded project ICZMP, Odisha 2011 to 2020.
Book Chapter Published	<ul style="list-style-type: none">• Maharaj, Sujan, Rout, Jajnaseni (2024), “Spatio-temporal dynamic of peri-urban area- A case of Jagatpur, Cuttack, Odisha”, Futuristic Trends in Social Sciences, ISBN: 978-93-5747-857-1, IIP Series, Vol. 3, Book – 10, Part- 1, Chapter -3.• Ojha, Adikanda, Rout, Jajnaseni (2024), “Geospatial Approach on Sustainable smart city Planning - A case of Bhubaneswar, Odisha”, Futuristic Trends in Social Sciences, ISBN: 978-93-5747-857-1, IIP Series, Vol. 3, Book – 10, Part- 1, Chapter -5.• Ojha, Adikanda, Rout, Jajnaseni (2018) “Landuse / Landcover Dynamic of Chilika Lake Catchment”, ISBN: 978-93-88459-22-8, White Falcon Publishing House.• Rout, Jajnaseni, Ojha, Adikanda (2019) “Integrated and Adoptive Watershed Management”, ISBN: 978-93-89085-89-1, White Falcon Publishing House.

- Ojha, Adikanda, **Rout, Jainaseni** (2022) “Restoration and Conservation of Wetlands- A Geospatial Approach”, “Anthropogeomorphology-A Geospatial Technology Based Approach”, ISBN: 9783030775711, Springer
 - **Rout, Jainaseni**, Ojha, Adikanda, Mishra, Nandita “GIS and Micro level Planning of Slum” Challenges of Urbanization in the 21st Century of Marginalization and Exclusion in Urban Spaces book, ISBN – 13:978-81-8069-952-8, Vol. 5, 2013, pp:102 – 111.
1. Mohanty, Dibya Jyoti, Rout, Jainaseni, “The waters That Do Not Reach the River: Stable Precipitation, Rising Evapotranspiration, and the Flow Decline in Brahmani-Baitarani River Basin, Eastern India”, World Water Policy, Wiley Publisher, 2025, pp:1:22, <https://doi.org/10.1002/wwp2.70023>.
 2. Mohanty, Dibya Jyoti, Rout, Jainaseni, “Mapping anthropogenic pressure in the Brahmani-Baitarani river Basin: a PCA-based approach”, Environmental Monitoring and Assessment, 197:641, Springer Nature Switzerland AG (2025), <https://doi.org/10.1007/s10661-025-14088-1>
 3. Mahalik, Smruti Rekha, Rout, Jainaseni, Mohanty, Dibya Jyoti, “Impact of Environmental Degradation on Steel City of Odisha: A Geospatial Approach”, Research & Reviews: Journal of Space Science & Technology, Vol.14(02), pp:28-40, 2025.
 4. Mohanty, Dibya Jyoti, Ojha, Adikanda, Rout, Jainaseni, “Sustainable Rural Development through Geospatial technology: A case of Keonjhar district of Odisha”, Journal of Geotechnical Engineering, ISSN: 2394-1987, Vol. 11, Issue-3, 2024.
 5. Behera, Pravasini, Rout, Jainaseni, Mohanty, Dibya Jyoti, “Impact of Urbanization on Biodiversity hotspot: A case of Bhubaneswar city”, Journal of Remote Sensing & GIS, ISSN: 2230 -7990, Vol. 15, Issue – 3, 2024, pp: 20-28.
 6. Rout, Jainaseni, Mohanty, Dibya Jyoti, “Impact of Stone Quarry Mining on Environment: A case of Khurda District, Odisha”, Indian Journal of Social Research, Academic and Law Serials, ISSN: 2454-3624, Vol. 65 (3+4), 2024, pp: 151-168.
 7. Mohanty, Dibya Jyoti, Ojha, Adikanda, Rout, Jainaseni, “Application of Geospatial Technology in MGNREGA for achieving Sustainable Development: A case of Balangir District of Odisha”, International Journal of Geological and Geotechnical Engineering, ISSN: 2581 – 5598, DOI: 10.37628/IJGGE, Vol. 1, Issue – 1, 2024, pp: 8-18.
 8. Pradhan, Suchismita, Rout, Jainaseni, Mohanty, Dibya Jyoti, “Spatio-Temporal Land Surface Analysis – A case of Baripada City, Odisha”, International Journal of Current Research, ISSN: 0975-833X, DOI: <https://doi.org/10.24941/ijcr.47612.08>, 2024, Vol.16, Issue-8, 2024, pp: 29494-29500.
 9. Mohanty, Dibya Jyoti, Rout, Jainaseni, “Assessment of Morphology and Landuse induced Environment Dynamics in Tikra Watershed of Brahmani River Basin”, Research & Reviews: Journal of Space Science & Technology, ISSN: 2321 – 6506, DOI (Journal): 10.37591/RRJoSST, Vol. 12, Issue- 2, 2023, pp: 21-34.

10. Mohanty, Dibya Jyoti, Rout, Jainaseni, "A Geo-statistical model for downscaling Solar Irradiation Data: A case of Odisha", *Journal of Energy, Environment and Carbon Credit*, ISSN: 2249-8621, DOI (Journal): 10.37591/JoEECC, Vol. 13, Issue- 3, 2023, pp: 35-42.
11. Mohanty, Dibya Jyoti, Rout, Jainaseni, "Towards Renewable Energy Transition: Evaluating wind Resources of Odisha", *Journal of Remote Sensing & GIS*, ISSN: 2230 -7990, Vol. 14, Issue – 3, 2023, pp: 27-42.
12. Rout, Jainaseni, Ojha, Adikanda "Impact of Tropical Cyclone "Fani" on Chilika Lake Inlet", *Research & Reviews: Journal of Space Science & Technology*, ISSN: 2321 – 6506, Online ISSN: 2321 - 2837, Vol. 8, Issue - 2, 2019, pp: 26 – 29.
13. Rout, Jainaseni, Ojha, Adikanda "Geospatial technology application on sustainable wetland management & monitoring: A case of Ansupa lake, Odisha", *Journal of Remote Sensing and GIS*, ISSN: 2321-421X, Online: 2230 -7990, Vol. 10, Issue - 2, 2019, pp: 13 - 18.
14. Panda, M., Samal. R.N., Bhatta, K.S, Lenka, S., Rout, J., Patra, H.K., Nanda, S., "Diversity and distribution of Vascular macrophytes in Ansupa Lake, Odisha, India", *Bonorowo Wetlands*, P-ISSN:2088-110X, E-ISSN:2088-2475, DOI:10.3057/Bonorowo/W080101, 2018, Vol. 8, Issue 1, pp:1 – 12.
15. Ojha, A, Pattnaik, AK, Rout, J. "Climate change impacts on Natural Resources and Communities: A Geospatial Approach for Management", *Lakes & Reservoirs*, Wiley Publication, <https://doi.org/10.1111/lre.12209>, Vol. 23, 2018, pp: 34 - 42.
16. Ojha, Adikanda, Pattnaik, A.K., Rout, Jainaseni "Morphological Dynamic of Ekakula spit and Kalam Island in Kendrapara District of Odisha – A Geospatial Approach", *Research & Reviews: Journal of Space Science & Technology*, ISSN: 2321 – 6506, Online ISSN: 2321 - 2837, Vol. 6, Issue 3, 2017, pp: 1 - 5.
17. Rout, Jainaseni, Pattnaik, A.K., Lenka, Sasmita, Ojha, Adikanda "Water Spread area Dynamic of Chilika Lake: A Geospatial Approach", *Journal of Remote Sensing and GIS*, ISSN: 2321-421X, online: 2230 -7990, Vol. 8, Issue 3, 2017, pp: 17 - 21.
18. Ojha, Adikanda, Rout, Jainaseni, Pattnaik, A.K. "Geomorphological Change Analysis of Mahanadi Estuary and Hukitola Island of Odisha: A Geospatial Approach", *Research & Reviews: Journal of Space Science & Technology*, ISSN: 2321 – 6506, Online ISSN: 2321 - 2837, Vol. 6, Issue 2, 2017, pp: 30 - 37, www.stmjournals.com.
19. Ojha, Adikanda, Rout, Jainaseni, Pattnaik, A.K. "River Bank and Mouth Dynamic of Devi River of Odisha- A Geospatial Approach", *Indian Journal of Geomorphology*, ISSN: 0973-2411, Online - 2454-3616, Vol. 21(1), 2016, pp:11 - 21.
20. Ojha, Adikanda, Pattnaik, A.K., Rout, Jainaseni "Geomorphological dynamic of Mangala Cut of Puri district: A Geospatial Approach", *Research & Reviews: Journal of Space Science & Technology*, ISSN: 2321 – 6506, Online ISSN: 2321 - 2837, Vol. 5, Issue 3, 2016, pp: 1 - 6 www.stmjournals.com.

21. Rout, Jainaseni, Ojha, Adikanda, Balabantaray, Sachikanta “Geomatic based Morphometric analysis of Kadalibadi Micro watershed of Ansupa lake Catchment, Cuttack District, Odisha”, Research & Reviews: Journal of Space Science & Technology, ISSN: 2321–6506, Online ISSN: 2321-2837, Vol. 5, Issue 1, 2016, pp: 10 - 21, www.stmjournals.com.
22. Ojha, Adikanda, Daspattanayak, Pritirekha, Rout, Jainaseni “Land use / land cover variation in Khordha district under Chilika catchment”, Research & Reviews: Journal of Space Science & Technology, ISSN: 2321– 6506, Online ISSN: 2321-2837, Volume 5, Issue 1, 2016, pp: 22 - 34, www.stmjournals.com.
23. Ojha, Adikanda, Dasapattanayak, Pritirekha, Rout, Jainaseni “The Land use / land cover dynamic of Puri district under Chilika catchment”, Neo Geographia-An International Journal of Geography, GIS & Remote Sensing, ISSN: 2319- 5118, Online: 2347 – 209X, Vol. V, Issue 1, 2016, pp: 1 – 14.
24. Rout, Jainaseni, Balabantaray, Sachikanta “Geomatic based sustainable Micro watershed planning – a case study of Kadalibadi Micro watershed of Ansupa catchment, Cuttack district, Odisha”, Neo Geographia-An International Journal of Geography, GIS & Remote Sensing, ISSN: 2319- 5118, Online: 2347 –209X, Vol. V, Issue – 1, 2016, pp: 43 - 62.
25. Rout, Jainaseni, Ojha, Adikanda, Samal, R.N., Rajesh, G., Pattnaik, A.K. “Vegetation area monitoring through NDVI technique: a case study of Dengei pahad micro watershed, Khurda District, Odisha”, Journal of Remote Sensing & GIS, ISSN: 2321-421X, online: 2230 -7990, Vol. 6, No.1, 2015, pp: 11 - 16.
26. Ojha, Adikanda, Rout, Jainaseni “Morphometric analysis of Ansupa Lake, Odisha using GIS technique”, Journal of Remote Sensing & GIS, ISSN: 2321-421X, online: 2230-7990, Vol. 5, Issue 2, 2015, pp: 15 – 22.
27. Ojha, Adikanda, Rout, Jainaseni, Daspattanayak, Pritirekha “Geomatic based Ground Water Potential Mapping of Chilika Catchment of Odisha”, International Research Journal of Humanities, Engineering & Pharmaceutical Sciences, ISBN: 978-81-909047-9-7, p-ISSN: 2249-2569, e-ISSN: 2320-2955, Vol. 2, Issue 8, 2014, pp: 152 - 156.
28. Rout, J., Ojha, A., Tripathy, M., Pattnaik, A.K., Rajesh, G., Samal, R.N. “Morphological Dynamics of Chilika Lake Inlet – Odisha”, Research & Reviews: Journal of Space Science & Technology, ISSN: 2321 – 6506, Online ISSN: 2321-2837, Vol. 4, Issue 1, 2014, pp: 1 - 7, www.stmjournals.com.
29. Bhatta, Abhijit, Rout, Jainaseni, Das, N.R. “Electricity distribution and consumption analysis of Bhubaneswar urban complex using GIS technology”, Journal of Geotechnical Engineering, E-ISSN: 2394-1987, Vol. 1, Issue 2, 2014, pp: 12 - 21, www.stmjournals.com.

Research Projects

30. Rout, Jainaseni, Ojha, Adikanda, Srichandan, Suchismita, Tripathy, Madhusmita, Bhatta, K.S., Samal, R.N., Pattnaik, A.K., Rajesh, G. "Monitoring Aquatic Vegetation Distribution in Chilika Lagoon with G-tech", Research & Reviews: Journal of Space Science & Technology, ISSN: 2321 – 6506, Online ISSN: 2321 - 2837, Vol. 3, Issue 1, 2014, pp: 17 -23, www.stmjournals.com.
 31. Ojha, Adikanda, Rout, Jainaseni, Samal, R.N., Rajesh. G., Pattnaik, A.K. & Daspathanayak, Pritirekha "Evaluation of Landuse / Landcover Dynamics of Chilika Catchment", International Journal of Geomatics and Geosciences, E-ISSN: 0976-4380, Vol. 4, No. 2, 2013, pp: 388 - 396.
 32. Ojha, Adikanda, Rout, Jainaseni, Samal, R.N., Rajesh. G., Pattnaik, Ajit Kumar "Role of Remote Sensing & GIS in Integrated Rural Development Planning", Neo Geographia-An International Journal of Geography, GIS & Remote Sensing, ISSN: 2319- 5118, Online: 2347 – 209X, Vol. 1, Issue. III, February 2013, pp: 18-26.
 33. Rout, Jainaseni, Ojha, Adikanda, Pradhan, Subhasis, Samal, R.N., Pattnaik, Ajit Kumar "Geomorphological Change Analysis of Chilika Lagoon Inlets – A Case Study", The Indian Journal of Geomorphology, ISSN: 0973-2411, Online - 2454-3616, Vol. 17 (1) Jan- June, 2012, pp: 9 - 24.
 34. Rout, Jainaseni, Mishra, Nandita "Rural Service Center Analysis of Mayurbhanj District in Orissa", The GOA Geographer, The Research Journal of Geographer's Association Goa (GAG), ISSN: 0976-786X, Vol.VII, No. 1, December 2010, pp: 25-30.
1. "Impact of Stone Quarry Mining on Environment and Community Health – A case study of Khordha & Nayagarh District, Odisha" funded by OHEPEE, Ravenshaw University, Cuttack, 2023 (2 lakhs), **Completed**
 2. "Quantifying India's Landscape Transformation: A Remote Sensing Approach to Human Modification" funded by Anusandhan National Research Foundation (ANRF) under Prime Minister Early Career Research Grant (PMECRG) Program. (51.3 lakh), **Continued**.
 3. "An Integrated study on Human-Crocodile conflict incidence, Habitat overlap and community vulnerability in Odisha" Funded by ICSSR under Major & Minor Research Project 2025-26 scheme. (11 Lakh), **Continued**.