



Dr. Asutosh Goswami

Assistant Professor

Department of Geography
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Specialisation

Applied Climatology, RS-GIS, Hazard Management, Agricultural Meteorology

Education

PhD (JRF)	Department of Geography, Vidyasagar University, Midnapore. Thesis "Impact of Climate on Agricultural Development of South-Western Tract of West Bengal: A Study in Purulia"	2022
MSc	Department on Geography, West Bengal State University	2013
BSc	Department on Geography, West Bengal State University	2011
Geoinformatics	NTU-WBUT	2015

Teaching Experience

More Than 7 years in different colleges and universities

Administrative Experience

1 year as Coordinator in PG studies in Geography and 3 years as a member of PG Geography and RS-GIS board of studies.

M.Sc. Dissertations Supervised

More than 100

Teaching Experience

- Assistant Professor in the Dept. of Earth Sciences and Remote Sensing, JIS University, Kolkata, India (05thSeptember, 2022–28thOctober, 2024)
- Assistant Professor in Geography, Lovely Professional University, Phagwara, Punjab(20thSeptember,2021–31stAugust,2022)
- Lecturer in Geography (full-time contractual)at Bhairab Ganguly College, Kolkata(3rdFebruary, 2015—31stMay, 2017)
- Guest Faculty for B.Sc. Geography at Dept. of Geography, Serampore Girls' College, Howrah(1stSeptember,2014—2ndFebruary,2015)
- Visiting Faculty for M.Sc. Geography at Vidyasagar University (Distance mode) from 2017/18—2020 [BGC and Main Campus]
- Visiting Faculty at West Bengal State University, Barasat (December–January,2015-16)(August, 2016-December, 2016)

Book Editor

- Name of the Edited Volume:Geo-Historical Research: New Perspectives
Publisher: **Scrivener-Wiley**
Status: Ongoing
- Name of the Edited Volume: Exploration of Cultural Landscape throughHistorical Perspective
Publisher: **Vernon press**
Status: Ongoing

PUBLISHED PATENTS

Title-	Wandering Cow Control Device	Uranium Removal Water Cleaning Device	Historic Culture Data Teaching Handset Device	Hyperspectral Sensing Based Smart Oral Cancer Detection Device
Application Number-	391070-001	395655-001	440967-001	440967-007
Design Number-	388101-001	395655-001	440967-001	440967-007
Issue Number-	44/2023	44/2023	47/2024	54/2024
Publication Date-	03/11/2024	03/11/2024	14/01/2025	25/04/2025

Publications

Books

- 2023 :** • Goswami, A. & Chakrabarty, S. D., & Sen, S. (2023). Introduction to Human Geography: The Evolution of MAN from Man. Insta Publishing, New Delhi. [ISBN: 978-93-95037-48-8]
- Chakraborty, P. K., Goswami, A. & Sen, S. (2023). Atmosphere & Climate. Balaka Publishing House, Kolkata. [ISBN: 978-81-939662-7-3]
- 2020 :** • Goswami, A. (2019). Rainfall Analysis over Western Part of West Bengal, India-Long Term Rainfall Analysis during Monsoon Season for Some Selected Districts of Western Part of West Bengal, India. Lambert Academic Publishing, Latvia. [978-613-9-99478-6]
- 2019 :** • Chakraborty, P. K., Chakrabarty, S. D., & Goswami, A. (2019) Jalavayavidya: Abohaoya O Jalabayur Moulik Nitisomuho. Balaka Publishing House, Kokata. [978-81-939662-1-1]
- Goswami, A. (2019). Rainfall Analysis over Western Part of West Bengal, India-Long Term Rainfall Analysis during Monsoon Season for Some Selected Districts of Western Part of West Bengal, India. Lambert Academic Publishing, Latvia. [978-613-9-99478-6]
- 2018 :** • Chakraborty, P. K., & Goswami, A. (2018). General Climatology: An Introductory Approach. Balaka Publishing House, Kolkata. [ISBN: 978- 81-939662-0-4].

ARTICLES

- 2024 :** • Majumder, P., Goswami, A., Munshi, S. K., & Sen, S. (2024). Prospect of marigold cultivation in Purulia district of West Bengal: A way forward towards socio-economic sustainability. In: Jain, V., & Mittal, A. (Eds.). Management for Sustainable Development (1st ed.). Apple Academic Press. [Link: <https://www.appleacademicpress.com/management-for-sustainable-development-integrating-social-economic-and-environmental-goals-/9781774916704>]
- Paul, S., Murmu, S., Ghosh, B., Goswami, A. & Sen, S. (2024). Flood susceptibility assessment and hydrological modeling of Sali River basin: A way forward towards run-off estimation and water conservation. In: Das, J. (Ed.). New Advancements in Geomorphological Research (1st ed.). Springer Nature Switzerland.
- Mitra, S., Bera, S., Dutta, P., Goswami, A., Sen, S., Majumder, P. (2024). Flood Impact on Mangrove Health Dynamics in Sagar Island of West Bengal: A Geoinformatics Based Approach. In: Biswas, B., Ghute, B. B. (eds) Flood Risk Management. Springer Natural Hazards. Springer, Singapore. https://doi.org/10.1007/978-981-97-2688-2_9

- 2023 :**
- Goswami, A., Sen, S., & Majumder, P. (2013). Multi-Criteria Decision- Based Approach of Flood Susceptibility of Balason River Basin in Darjeeling, West Bengal: A Way Forward Towards Socio-Economic Sustainability and Capacity Building Multi-Criteria Approach of Flood Susceptibility of Balason River Basin. In: Jain & Kukreja (Ed.). Multidisciplinary Approaches to Sustainable Human Development (1st ed.). IGI Global. [DOI: [10.4018/978-1-6684-8223-0.ch005](https://doi.org/10.4018/978-1-6684-8223-0.ch005)]
 - Goswami, A. & Majumder, P. (2023). Assessment of Extreme Climatic Impact on Agricultural Livelihood in the Purulia District of West Bengal through Multi-Criteria Decision Model. In: Sarkar, R., Alam, A., & Siddiqui, A.R. (Eds.). Agriculture and Climatic Issues in South Asia: Geospatial Applications (1st ed.). CRC Press. [DOI: <https://doi.org/10.1201/9781003377825-26>]
 - Goswami, A., Paul, A.K. (2023). Climate Variability and Agricultural Modifications in Purulia and Bankura Districts of West Bengal. In: Paul, A.K., & Paul, A. (Eds.) Crisis on the Coast and Hinterland (1st ed.). Springer, Cham. [DOI: https://doi.org/10.1007/978-3-031-42231-7_14]
 - Goswami et al., (2023). Reliability Analysis of Relation between Urbanization, Vegetation Health, and Heat Island Through Markov Chain Model. In: Iqbal, J., Masoodi, F.S., Ahmad Malik, I., Khurshid, S., Saraf, I., & Bamhdi, A.M. (Eds.). System Reliability and Security: Techniques and Methodologies (1st ed.). CRC Press. [DOI: <https://doi.org/10.1201/9781032624983-5>]
 - Banik, A. D., Roy, A., Hembram, M., Chakraborty, B., Das, N., Gardg, M., Mahajan, R., Mondal, M., & Goswami, A. (2023). Flood Susceptibility Assessment and its Management in Malda District of West Bengal through Geospatial Technique. Environment & Ecology, 41(4):2282-2291. [DOI:[10.60151/envec/TWIL8331](https://doi.org/10.60151/envec/TWIL8331)]
 - Goswami, A., Sen, S. (2023). Geospatial Appraisal of Vegetation Health and Air Quality of Delhi During Pre- and Post-lockdown Phases Through a Multi-criteria Decision Model. In: Ali, M.A., Kamraju, M. (Eds.) Temporal and Spatial Environmental Impact of the COVID-19 Pandemic. Advances in Geographical and Environmental Sciences. Springer, Singapore. [DOI: https://doi.org/10.1007/978-981-99-1934-5_2]
 - Goswami, A., Mondal, M. (2023). Examination of Radiation Distribution and Its Relation with Stress Degree Day Index in Some Crops of the Yamne River Catchment in Arunachal Pradesh During Pre- and Post-COVID Times. In: Ali, M.A., Kamraju, M. (Eds.) Temporal and Spatial Environmental Impact of the COVID-19 Pandemic. Advances in Geographical and Environmental Sciences. Springer, Singapore. [DOI: https://doi.org/10.1007/978-981-99-1934-5_6]
 - Mondal, M., Harry, Lalthanzama, S. C., Dhaka, N., & Goswami, A. (2023). Socio-Religious and Spiritual Significance of Symbols in the Folk Art of Bengal. ECB, 12 (5), 4097-4107. [DOI: [10.48047/ecb/2023.12.5.3032023.15/06/2023](https://doi.org/10.48047/ecb/2023.12.5.3032023.15/06/2023)]
 - Mondal, M., Sharma, A., Singh, J. K., & Goswami, A. (2023) people's perception on growth of tourism: a case study of Arunachal Pradesh. ECB, 12 (3), 1054-1069. [DOI: [10.31838/ecb/2023.12.3.0782023.30/04/2023](https://doi.org/10.31838/ecb/2023.12.3.0782023.30/04/2023)]
- 2022 :**
- Goswami, A., Sen, S., & Sanyal, R. (2022). Delineation of Landslide Hazard Zones of a Part of Sutlej Basin in Himachal Pradesh Through Frequency Ratio

- Model. In: Rana, A., Kumar Rana, A., Dhawan, S., Sharma, S., & Elngar, A.A. (Eds.). (2022). Convergence of Deep Learning and Artificial Intelligence in Internet of Things (1st ed.). CRC Press. [DOI: <https://doi.org/10.1201/9781003355960>]
- Sen, S., & Goswami, A. (2023). Assessment of Modern Methods for Remote Teaching in Some Selected Educational Institutions in Kolkata City of West Bengal, India. In: Bansal et al. (Eds.). Redefining Virtual Teaching Learning Pedagogy. Wiley. [DOI: <https://doi.org/10.1002/9781119867647.ch3>]
- 2021 :** • Goswami, A., Sens, S., & Chakraborty, P. K. (2021). Examination of Vegetation Health and Its Relation with Normalized Difference Built-Up Index. In: Gupta, R., Kumar Rana, A., Dhawan, S., & Cengiz, K. (Eds.). Advanced Sensing in Image Processing and IoT (1st ed.). CRC Press. [DOI: <https://doi.org/10.1201/9781003221333>]
- Goswami et al. (2021). Assessment of Trends and Variability of Post-Monsoon Rainfall for Some Selected Districts of Gangetic West Bengal, India. Indian Journal of Geography and Environment, 17-18, 39-46. [DOI: <http://inet.vidyasagar.ac.in:8080/jspui/handle/123456789/5949>]
- 2020 :** • Goswami, A. & Majumder, P. (2020). Need of water conservation in the western part of West Bengal for appropriate agricultural planning. In: Chakraborty, P. K. (Ed.). Recent Trend of Research on Environmental Issues (1st ed.). Balaka Publishing House, Kolkata.
- 2019 :** • Goswami, A. (2019). Recent Trend of Minimum Temperature during Winter Season over Kolkata in West Bengal, India. Environment and Ecology, 37 (1), 132-138.
- Goswami, A. (2019). Long Term Temperature Analysis during Winter Season for Some Selected Districts of Sub-Himalayan West Bengal, India. Environment and Ecology, 37 (1A), 255-262.
- 2018 :** • Goswami, A. (2018). Assessment of Trends and Variability of Pre-Monsoon Rainfall for Some Selected Districts of Western Part of West Bengal. Environment and Ecology, 36 (4), 1047-1052.
- Kamila, A., Bal, A., Sen, T. S., Parvin, J., Sultana, F., Goswami, A., Paul, A. K. (2018). An Integrated GIS Approach for Assessment of Ground Water Potential Zone: A Case Study on the Upper Catchment Area of Subarnarekha River. Indian Journal of Geography and Environment, 15-16, 1-11. [DOI: <http://inet.vidyasagar.ac.in:8080/jspui/handle/123456789/4533>]
- 2017 :** • Goswami, A. (2017). Monsoon Weather Fluctuations and its Impact on Agriculture in the Western Tract of West Bengal. Journal of Agro-ecology & Natural Resource Management, 4 (3), 220-223.
- Goswami, A. (2017). Urban Environment and Health in an Area of Increasing Urbanisation: A Case Study of Kamarhati Municipality, West Bengal. The Indian geographical journal, 92 (2), 144-151.
 - Goswami, A. & Paul, A. K. (2017). Assessment of Trends and Variability of Post- Monsoon Rainfall for Some Selected Districts of Sub-Himalayan West Bengal, India. The Indian geographical journal, 85 (1), 37-44.
 - Saha, P., Goswami, A. (2017). An Assessment of Meteorological Drought of a Part of Western Tract of West Bengal for the Need of Water conservation of the Area. In: Sati, V. P., & Lalmalsawmza, K. C. (Eds., 885-893). Natural

Resources Management for Sustainable Developments and Rural Livelihoods (1st ed.). Mizoram University.

- Chakraborty, D., Roy, S., & Goswami, A. (2017). Impact of Climate Change on Human Comfort and Its Relation in Market Rise of Electronic Gadgets: A Case Study of Kolkata city, India. In: Sati, V. P., & Lalmalsawmzauva, K. C. (Eds., 895-903). Natural Resources Management for Sustainable Developments and Rural Livelihoods (1st ed.). Mizoram University.
- Goswami, A. (2017). Comparative Analysis of Dew and Rainfall in the Dryland Zone of West Bengal. Contemporary Global Environmental Issues and Its Sustainable Management (pp 1-14), West Bengal.
- Goswami, A. (2017). Analysis of Meteorological Drought and Its Trend in Bankura District of West Bengal, India. In: Mishra, G. C. (Ed.). AFHABEC (1st ed.). Krishi Sanskriti, New Delhi.
- 2016 :** • Goswami, A. (2016). An Assessment of Climatic Environment of the Western Tract of West Bengal for Appropriate Agricultural Planning. In: Chakraborty, R. L. (Ed.). Nation and Development: Colonial and Post Colonial India (1st ed.). Bhairab Ganguly College.
- Goswami, A. (2016). Winter Weather Change and Its Impact on Agriculture in West Bengal. In: Sil, A. K. (Ed.). Contemporary Research in Geography (1st ed.). Bhairab Ganguly College.
- Goswami, A. (2016). Winter Weather Change and Its Impact on Agriculture in the Dryland Zone of West Bengal of West Bengal. In: Environment and Sustainability- A geographical perspective 1st ed.). PCMM.
- Goswami, A. (2016). Recent Trend of Monsoon Rainfall in the Dryland Zone of West Bengal and Its Impact on Agriculture in Climate Change Security (1st ed.). KPC.

BOOK TRANSLATED IN 4 LANGUAGES

- Goswami, A. (2023). Analisi delle precipitazioni sulla parte occidentale del Bengala occidentale, India. Edizioni Sapienza, Italian Edition. [ISBN: 978-93-95037-48-8]
- Goswami, A. (2023). Niederschlagsanalyse über dem westlichen Teil von Westbengalen, Indien. Verlag Unser Wissen, German Edition [ISBN 978-6205906163]
- Goswami, A. (2023). Análise das precipitações na parte ocidental de Bengala Ocidental, Índia. Edicoes Nosso Conhecimento, Portuguese Edition [ISBN 978-6205906200]
- Goswami, A. (2023). Analyse des précipitations sur la partie ouest du Bengale occidental, Inde. Editions Notre Savoir, French Edition [ISBN 978-6205906187]

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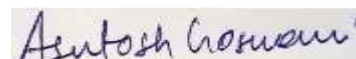
Visitors engagement in museums: A case study of Punjab state war heroes memorial and museum. **Registration Number: L-146490/2024**

PAPER PRESENTED IN SEMINARS

- Presented paper titled –An Assessment of Climatic Environment of the Western Tract of West Bengal for Appropriate Agricultural Planning at National Seminar on—Geography of habitat held at S. N. Bose National Center for Basic sciences from 26th-27th February, 2016, organised by Foundation of Practising Geographers.
- Presented paper titled –Winter Weather Change and Its Impact on Agriculture in West Bengal at UGC Sponsored national Seminar on –Contemporary research in Geography held at Bhairab Ganguly College, kol-56 from 05-06th March, 2016,organised by Department of Geography, Bhairab Ganguly College, Kolkata-700056 in Collaboration with NATMO.
- Presented paper titled –Drought in Western Tract of West Bengal: Its Impact and Management at National Seminar on –Development and Environment held at S. N. Bose National Center for Basic sciences from 17th-18th March, 2016, organised by Dept. of Geography, West Bengal State University.
- Presented paper titled –Post monsoon Weather Fluctuations and its Impact on Agriculture in West Bengal (with Shubhanita Dasgupta, Dept. of Geography, Bhairab Ganguly College) at National Seminar on –Development and Environment held at R. N. Bose National Center for Basic sciences from 17th-18th March, 2016, organised by Dept. of Geography, West Bengal State University.
- Presented paper titled –Water Conservation of Purulia District and Its Impact on Agriculture at National Seminar on –Contemporary Global Environmental issues and Its Sustainable management held at Haringhata Mahavidyalaya from 21st to 22nd April, 2017, organised by Dept. of Geography, Haringhata Mahavidyalaya in collaboration with ILEE.
- Presented paper titled –An Assessment of Meteorological Drought of Purulia District, West Bengal for the Need of Water Conservation of the District at International Seminar on –Environment and Society: Historical Perspectives and Contextual Reality|| held at The University of Burdwan on 28th March, 2017, organised by Dept. of Geography, The University of Burdwan.
- Presented paper titled –An Assessment of Meteorological Drought of a Part of Western Tract of West Bengal and appropriate agricultural Planning of the area at National Seminar on Environment & Sustainability-A Geographical perspective held at Prasanta Chandra Mahalanobis Mahavidyalaya from 18th to 19th November, 2016, organised by Dept. of Geography, Prasanta Chandra Mahalanobis Mahavidyalaya in collaboration with ILEE, WBSU and Geographical society of India.
- Presented paper titled –Need of water Conservation in the Western Tract of West Bengal for Appropriate Agricultural Planning at National Seminar on –Climate Change: Issues and Challenges to Society, environment and

Development held at Haringhata Mahavidyalaya from 23rd to 24th September, 2016, organised by Dept. of Geography, Haringhata Mahavidyalaya in collaboration with R.B.C. college.

- Presented paper titled –Analysis of Meteorological Drought and Its Trend in Bankura District of West Bengal, India at International Conference on –Recent Trend in Agriculture.....Climate Change|| held in Jawaharlal Nehru University, New Delhi on 16th September, 2017 , organised by Dr. G.C. Mishra Educational Foundation.
- Presented paper titled- Trend of Meteorological Drought in Purulia District of West Bengal, India at International Conference on –Environmental Changes and prospects held at Pt. Ravishankar Shukla University, Raipur from 24th to 26th September, 2017, Organised by Deccan Geographical Society India.
- Presented paper titled- An Assessment of Meteorological Drought of a Part of Western Tract of West Bengal for the Need of Water Conservation of the Area at International Conference on – natural Resources Management for Sustainable Development and Rural Livelihoods held in Mizoram University (2017).
- Presented paper titled- Assessment of Trends and variability of Monsoon Rainfall over Purulia District of West Bengal, India at International Conference on – Agriculture and Allied Science: The Productivity, Food Security and Ecology held in Bidhan Chandra krishi Viswavidyalaya, West Bengal from 13th to 14th August, 2018.
- Presented paper titled-An Examination of Meteorological Drought and Stress degree day Index in Purulia District of West Bengal, India at International Conference on – Recent Trends in Basic and Applied Sciences held in Bhairab Ganguly College, West Bengal on 6th and 7th July, 2020.
- Presented paper titled-An Examination of Meteorological Drought and Aridity Index in Purulia District of West Bengal, India at International Conference on – Sustainable Development in KRKKM, West Bengal on 29th and 30th July, 2020.
- Presented paper titled –Monsoon Weather Fluctuations and Its Impact on Agriculture in the Western Tract of West Bengal at International Seminar on–Contemporary Issues in Integrating Climate.....Sustainable development|| held in Kalimpong Science Centre from 11th to 12th May, 2017 , organised by Himalayan Scientific society for Fundamental and Applied Research in collaboration with Kalimpong Science Centre and UBKV.



Date: 14/ 05/ 2025

Asutosh Goswami

Place: Kolkata