

CURRICULUM VITAE



DR. SHASANKA KUMAR GAYEN

M.SC. (CAL), Ph.D. (CAL)

**PROFESSOR & FORMER HEAD
DEPARTMENT OF GEOGRAPHY**

COOCH BEHAR PANCHANAN BARMA UNIVERSITY

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**PERMANENT ADDRESS: CB-121, STREET NO. 239, NARKEL BAGAN, ACTION AREA-I
NEWTOWN-700156, KOLKATA**

ACADEMIC QUALIFICATION AND OTHERS:

B.SC. (HONS.), (1999), C.U

SPECIALIZATION: Fluvial Geomorphology

M.SC. (2001), C.U

SPECIALIZATION: Fluvial Geomorphology and Applied Geomorphology

PH.D. IN GEOMORPHOLOGY AND APPLIED GEOMORPHOLOGY (2012), C.U

TOPIC OF RESEARCH: Geomorphology of the Torsa Basin, West Bengal, with Special Reference to Land and Water use.

NET/SLET: 2002 (UGC)

INTEREST OF RESEARCH: Fluvial & Glaciers related research.

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A. PROFESSIONAL EXPERIENCES:

TOTAL TEACHING EXPERIENCES: 22 YEARS

- Professor of Geography, Cooch Behar Panchanan Barma University.
- Former Associate Professor of Geography, Cooch Behar Panchanan Barma University, Cooch Behar.
- Former Assistant Professor of Geography, Gokhale Memorial Girls' College, Kolkata.
- Former Assistant Professor & H.O.D, Dept.of Geography, Cooch Behar College, Cooch Behar.
- Former Co-ordinator of Geography, Cooch Behar Panchanan Barma University, Cooch Behar.
- Former Guest Lecturer of Geography, Krishnagar Govt. College (PG) Krishnagar, Nadia.
- Former Guest Lecturer of Geography, LalBaba College, Belurmath, Howrah.
- Former Guest Lecturer of Geography, Surendranath College, Kolkata.

B. PREVIOUS ADMINISTRATIVE & ACADEMIC EXPERIENCES:

- Former Controller of Examinations (Offg.), Cooch Behar Panchanan Barma University, Cooch Behar (29. 09. 16 to 28. 03. 2017)
- Former H.O.D, Dept. of Geography, Cooch Behar Panchanan Barma University, Cooch Behar (Since July 2013 to 2016 & Sept. 2018 to Sept. 2020)
- Former Chairman, UG Board of Studies, Cooch Behar Panchanan Barma University, Cooch Behar (Since July, 2013 to Sept. 2016 & Sept. 2018 to Sept. 2020).
- Former Chairman, PG Board of Studies, Cooch Behar Panchanan Barma University, Cooch Behar (Since July, 2013 in Sept. 2016 & Sept. 2018 to Sept. 2020)
- Former Chairman, Board of Research, Dept. of Geography, Cooch Behar Panchanan Barma University, Cooch Behar (Sept. 2018 to Sept. 2020)
- Former Public Information Officer (P.I. O), Cooch Behar Panchanan Barma University, Cooch Behar (2017 to 2021)

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- Former Court Member, Cooch Behar Panchanan Barma University, Cooch Behar (Sept. 2018 to Sept. 2020)
- Former Member, UG Board of Studies, North Bengal University, Darjeeling (Since 2012 to 2016)
- Former Member, Governing Body, Thakur Panchanan Mahila Mahavidyalaya (TPMM) Cooch Behar (Since 2012 to 2019)
- Former Secretary, Teachers' Council, Cooch Behar College, Cooch Behar (Since 2005 to 2011)
- Former Member, PG Board of Studies, Sidho-Kanho-Birsha University (SKBU), Purulia.

C. PRESENT HOLDING THE POSTS OF ADMINISTRATIVE AND ACADEMIC AT CBPBU:

- At present Member, UG Board of Studies, Dept. of Geography, CBPBU
- At present Member, PG Board of Studies, Dept. of Geography, CBPBU
- At present Member, Board of Research Studies, Dept. of Geography, CBPBU
- At present Member, Central Board of Research Studies, CBPBU
- At present Member of interdisciplinary, Board of Research Studies, Dept. of Political Science, CBPBU
- At present Member, University N.S.S. Advisory Board.
- At present Member, University disciplinary committee, CBPBU, etc.
- At present member NAAC Steering Committee.
- At present Vice-President of CBPBU Teachers' Council.
- At present Joint convener of West Bengal College & University Professors' Association of CBPBU unit.
- At present member, PG Board of Studies, Dept. of Geography, Kanyashree University, Nadia.

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D. LIFE FELLOW OF THE FOLLOWING LEARNED SOCIETIES:

- Geographical Society of India, University of Calcutta, Kolkata.
- Institute of Landscape, Ecology & Ekistics (ILEE), Kolkata.
- Union Geographic Information Technologists (UGIT), Bangalore University, Bangalore.
- North East India Geographical Society (NEIGS), Gauhati University, Gauhati.
- Institute of Indian Geographers (IIG), Pune University, Pune.
- Indian Journal of Spatial Science (IJSS)

E. MEMBER OF EDITORIAL/ ADVISORY BOARDS:

- Reviewer of Modeling Earth System and Environment, Springer Nature.
- Reviewer Taylor & Francis Group.
- Reviewer of MDPI Journal in Social Science.
- Joint Editor(s) Indian Society of Spatial Science.
[Url:https://www.indiansss.org](https://www.indiansss.org)
- Section Editor for RST, Academic Publishing Pte. Ltd., Singapore.
- Reviewer of International Journal of Geo-information (IJGI, 2220-9964, Impact Factor 3.4)

F. RESEARCH SUPERVISION:

- Total no. of PhDs awarded: (04)
- Total no. of PhDs Submitted: (01)
- At present (08) Registered Research Scholars are doing their research works in various fields of Physical Geography under my supervision.

G. OTHERS ACADEMIC ACTIVITIES:

- Act as an external expert or adjudicator of evaluating Ph.D. Thesis of various

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universities more than (30).

- Act as an external evaluator of M. Phil. Dissertation of various universities.
- Act as a convener of introducing the CBCS system at UG level, CBPBU.
- Act as a paper setter and External Examiner, Visva-Bharati University, Santiniketan.
- Act as a paper setter and External Examiner Sidho-Kanho-Birsha University (SKBU), Purulia.
- Act as a paper setter and External Examiner Rabinda Bharati University.
- Act as a Moderator of Kanyashree University, Krishnagar, Nadia.
- Act as an external expert of Sadhu Ramchand Murmu University, Jhargram.
- Act as an External expert of Bodoland University, Assam.
- Act as an External expert of Raiganj University,
- Act as a paper setter and External Examiner Panskura Banamali College (PG), Medinipur.
- Act as an External Examiner Vivekananda College (PG), Kolkata.
- Act as a subject expert on the Selection Board of Central School Service Commission.

(Since 2007 to till date)

- Act as a Chairman's nominee on the Selection Board of Central School Service Commission.
- Act as a subject expert for recruitment of the Guest teachers / Lecturers in various colleges more than (30) times.
- Act as an observer of several times of West Bengal College Service commission (WBCSC). Etc.

H. PAPERS PRESENTED IN CONFERENCES, SEMINARS, ETC.

INTERNATIONAL SEMINARS : (19)

| SL. NO. | YEAR | VENUE | TOPIC OF SEMINAR | NAME OF THE CONTRIBUTION OF PAPERS/POSTER |
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|-----|---------------------------------------------------------|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| 1. | 29 th Dec.2000- 1 st Jan. 2001 | CU | Changing Environmental scenario of India and Adjacent countries since independence | Arsenic contaminations in west Bengal |
| 2. | 11 th -13 th Jan'. 2007 | CU | Poverty of SE Asia | Problems of Economic Development of Torsa Basin |
| 3. | 24 th -25 th Dec. 2011 | K.U | Global Environmental issues: Changes to industry, Ecology, and Society. | Contamination of water of wetlands as an emerging issue of Global Environmental problems. |
| 4. | 10 th -12 th March, 2012 | C.U | Dimensions of Development and resource conservation | Possibilities of Eco-Tourism Development of Cooch Behar District |
| 5. | 19 th - 20 th Dec. 2014 | CU | Environmental Perspective and Resource Management | Effects of Climate Changing on Ecosystem and Biodiversity-A case Study of Cooch Behar District |
| 6. | 25 th -26 th March 2015 | Maynaguri college | Planet Earth and its Preservation | Environmental Management and its influence on our society |
| 7. | 27 th -28 th March 2015 | Alipurduar College | Modern Trends in Social and Basic Sciences (MTSBS- 2015) | Environmental Change and its effect on Biodiversity and Mangrove vegetation-A case study of Sunderban Region |
| 8. | 9 th -11 th Nov.2017 | Bangalore University | Climate change and Sustainable Water Resource Management- Innovative Geospatial Solutions | Why Rain Water Harvesting is indispensable for water resource Management? |
| 9. | 18 th Nov. 2017 | Burdwan University | System Dynamics, Human- Nature Interaction & Societal Discourse | Gender wise Human Trafficking from South-East Asia to other Countries in 21 st Century and its Influences. |
| 10. | 24 th Nov. 2017 | Bangladesh National Geographical Association (BNGA), Bangladesh | Water Issues and Sustainable Development | Without proper utilization of water resources in our daily life in future its crisis must be shown for our future generation. |
| 11. | 8 th -10 th Feb.2018 | International Geographical Union(IIG), Guwahati | Environment and Sustainable Livelihood | Analysis of Drought using Standard Precipitation Index-A case study of Puruliya District, West Bengal. |
| 12. | 21 st & 22 nd March, 2018 | 4th International seminar Dept. of Geography GBU | "Population, Urbanization and Environment: Contemporary Issues and Challenges" | Impacts on Livelihood pattern Driven by Climatic Stress in Western Region of West Bengal |
| 13. | 24 th & 25 th Nov.2018 | 7th International conference Dept. of Geography Peradeniya University, Sri Lanka | Climate Change, Disaster Risk Reduction and Sustainable Development Through Geospatial Technologies | Climate Change and Forest Fire Using Geospatial Techniques: A case Study of Sikkim |

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| 14. | 9th Jan to 11 th Jan. 2020 | International Conference, CBPBU | Cognitive Science, Language & Reality | Analysis of Channel bank shifting with the help of Remote Sensing and GIS technique: A study on the Dharla River in Cooch Behar District. |
| 15. | 9th Jan. to 11 th Jan.2020 | International Conference, CBPBU | Cognitive Science, Language & Reality | A new multicriteria based tourism potentiality index in reveal of tourism potentiality: A case study on Bankura District, West Bengal, India |
| 16. | 3 rd & 4 th March,2020 | International Seminar, Department of Geography, Lady Brabourne College & DHE, Govt. of W.B | Sustainable Development & Inclusive Growth Method to Methodology | Seasonal Livelihood of climbing Sherpas in Uttarey of Western Sikkim Himalayas. |
| 17. | 11 th & 12 th Nov.2022 | International Seminar, Department of Geography, CBPBU & Foundation of Practicing Geographers, Kolkata | Essence of Geography: What, Where &How | Delineation of Groundwater Potential Zones of Raidak River Basin, India, Using AHP and GIS Techniques. |
| 18. | 1 st & 2 nd Sept.,2023 | International Seminar Dept. of Geography, Rampurhat College, Birbhum, West Bengal | Recent Advancement in Geographical Studies A Multidimensional Outlook | Use of Karnataka Model of Cloud Seeding as a Drought Management Technique: A Case Study of Bankura and Purulia Districts, West Bengal. |
| 19. | 25 TH -28 TH Jan., 2024 | International Conference Dept. of Geography and Applied Geography, NBU | Emerging Issues in Environment, Livelihood and Development: A future Road Map towards Sustainable Earth | Climate Change and its Effects on Glacier Melting: A Case Study of South Lhonak Lake Burst, North Sikkim |

NATIONAL SEMINARS: (36)

| SL. NO. | YEAR | ORGANIZER AND VENUE | TITLE OF THE CONFERENCE/ SEMINARS | TITLE OF THE PAPERS PRESENTED |
|---------|----------------------------------------------------|-------------------------------------|--------------------------------------------------|----------------------------------------------------------------------------|
| 1. | 23 rd Oct. - 25 th Oct. 2002 | HNB Garhwal University, Uttaranchal | Central Himalaya Environment and Development | Landformsand Land use in upper part of Upper GangaBasin |
| 2. | Dec. 13 th - 14 th , 2002 | CU | Land AND Water Management in India | Landforms and Land use map of upper Ganga Basin. |
| 3. | 20 th -22 nd Jan, 2003 | University of Rajasthan, Jaipur | 15 th IGI Conference in Geomorphology | Natural Hazards in the Multicyclic Western Himalayan Terrain, Uttaranchal. |

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| 4. | 16 th -17 th Apl.2014 | Krishnagar Govt. College, Nadia | Disaster and its Management: Perspective and future Approaches | Flood Disaster Management in Malda District |
| 5. | 11 th -12 th Dec., 2004 | Cooch Behar College | Economy and Society of North Bengal: The changing Scenario. | Influence of Flood and other problems on Socio-Economic Development of Torsa Basin. |
| 6. | 27 th -28 th Mar., 2005 | ILEE & IBRAD, CU | Catchment Management & Sustainable Development | Water Resource Management of Torsa Catchment Area. |
| 7. | 25 th - 26 th Mar., 2006 | ILEE & IBRAD, CU | Research Methods & Techniques for sustainable Development in India | Research Design or Sustainable Development of the lower Torsa Basin, Cooch Behar |
| 8. | 11 th -12 th Jul., 2007 | Maynaguri College | The Nature & Trends of Internal and International Migration of West Bengal | Internal and External Migration Scenario in Cooch Behar District |
| 9. | 28 th Mar., 2008 | Saheed Kshudiram College | 'Environmental problems and our Future: Issues and Challenges' | Impact of Fly Ash of Thermal Power plant on Environment & Biodiversity as an Emergent Issue |
| 10. | 13 th - 14 th Feb.2010 | Alipurduar College, Jalpaiguri | 'Issues on Physical and Social Environmental Change' | Coastal Belt Water pollution at Vishakhapatnam City, Andhra Pradesh an Emerging Issue. |
| 11. | 25 th -26 th . November, 2011. | BRSN College, Kolkata. | Changing environmental scenario of Indian sub - continent: A geographical appraisal | Chitmahals are the emerging issues to geopolitics at the cross border of India Bangladesh in Cooch Behar district. |
| 12. | 8 th -9 th Sept.,2012 | Gour Mahavidyalaya, Malda | Issues on Rural livelihood in India | Changing trends of agriculture in Cooch Behar district in last Decades. |
| 13. | 8 th - 9 th Feb,2013 | Maynaguri College | Women Empowerment in the New Millennium- Where India Stands | Empowerment of our Indian Women |
| 14. | 4 th - 5 th Mar.,2013 | Lal Baba College, Kolkata. | Environment, Resource, and development | Climatic Changes and its overwhelming influences last decade of Cooch Behar District. |
| 15. | 1 st & 2 nd April, 2013 | Cooch Behar College, COB | Relevance of Swami Vivekananda in the present Social and Economic Scenario | Influence of Swami Vivekananda on Young Generation |
| 16. | 1 st Nov.2013 | Cooch Behar Panchanan Barma University, COB | World Philosophy Day | Organizer |
| 17. | 6 th -7 th Mar.2014 | University of North Bengal | Land, People and Society | Soil degradation is a serious threat for agricultural sustainability in the Himalayan Region. |

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| 18. | 28 th -29 th March,2014 | NSOU | Understanding Hazards and Their Mitigation Options | Effect of Earthquake Hazards in Cooch Behar District |
| 19. | 11 th -12 th Sept., 2014 | Birpara College | Population, Urbanization and Changing State of Environment | Why Application of Remote Sensing is Necessary in Geographical Study? |
| 20. | 24 th Nov.2014 | CBPBU | Truth and Knowledge: "An East- West Perspective" | Organizer |
| 21. | 11 th -12 th Dec. and 22 nd - 23 rd Dec.2014 | Presidency University, Kolkata | Seminar Series on Remote Sensing | Delegate |
| 22. | 20 th -21 st March, 2015 | Sitalkuchi College, CoB | Theory and Practice of Human Rights: The Indian Context | Human Trafficking and its influences on Cross Border migration to West Bengal from Bangladesh, Nepal, Bhutan and Neighboring Countries. |
| 23. | 30 th March 2015 | TPM, COB | Higher Education in North Bengal | Present Scenario of Higher Education in North Bengal |
| 24. | 12 th & 13 th Aug, 2016 | Birpara College, Jaipauri | Human Interventions: Present and Future State of Environment | Slum Dwellers' Assessment on Cooch Behar Municipality-An Environmental Appraisal |
| 25. | 25 th & 26 th Aug, 2016 | Cooch Behar College | Environmental Degradation and Disasters-A Vision plan for sustainable Development | Hazards prone Cooch Behar District- A Self appraisal Report on this District |
| 26. | 16 th & 17 th Nov. 2016 | Alipurduar College, Jaipauri | Environment, Ecology and Humans | Generation of Solid Waste Materials and its Management at Cooch Behar Municipality |
| 27. | 7 th & 8 th Feb. 2017 | Bakshirhat College, COB | Changing Demographic Scenarios in Colonial & Post Colonial North Bengal | The comparative Analysis of Demographic Changes of Cooch Behar District with respect to West Bengal |
| 28. | 30 th & 31 st March.2017 | Bakshirhat College, COB | Changing Environment, Natural Disaster in North Bengal-North East India | Effects of Urbanization on Flora and Fauna of Cooch Behar District |
| 29. | 30 th Aug., 2017 | Rajbanshi Bhasa Academy, COB | Rajbanshi, Bangla Ebong Asomia Bhasar Tulanamulak Alochana | Delegate |
| 30. | 26 th -28 th Dec.2017 | Ravenshaw University, Cuttack, Odisha | Population, Environment & Sustainable Development | Why Conservation of Wetlands are Mandatory? A vivid example and case study of Cooch Behar District, West Bengal. |

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| 31. | 26 th & 27 th Feb.2018 | A. B. N. Seal College, Cooch Behar | Approaches to Environment: Society, Culture, Polity and Economy | Why North East India is Earthquake prone? A case study of Cooch Behar District and its future vulnerability. |
| 32. | 17 th & 18 th May.2018 | International Benevolent Research Foundation, Kolkata | Contemporary Research Perspectives in Geography | Prediction of Drought using Winexpo Indices: An example from Puruliya District, West Bengal |
| 33. | 17 th & 18 th Jan. 2023 | Dept. of Science and Technology & Biotechnology, Govt. of West Bengal and CBPBU | The 5 th Regional Science Congress | Hybrid Model for Flood Susceptibility Assessment in Sub-Watershed of Teesta (Sikkim & West Bengal) |
| 34. | 1 st & 2 nd July, 2023 | Dept. of Geography and Applied Geography, NBU | Urbanization, Urban Environment and Sustainability in Himalayan and Sub- Himalayan region | Assessment of Geo-tourism sites using Geo- diversity & Tourism potential mapping in Kalimpong District |
| 35. | 8 th -9 th Feb., 2024 | Dept. of Library Science, CBPBU & National Digital Library of India, IIT Kharagpur | User Awareness on NDLI and NDLI Club with a Special Focus to Sustainable Development in Education | Act as an Organizer and Executive Committee Member |
| 36. | 15 th & 16 th March,2024 | Dept. of Geography, Dinhata College, Cooch Behar | Sustainable Development and Environment-A way of Self Sufficiency | Tourism suitability Assessment in Malbazar Block using Principal Component Analysis and Analytical Hierarchy Process. |

I. ORGANIZED SEMINARS, WORKSHOPS :

- International Seminars : 03
- National Seminars : 05
- Workshops : 03

J. CHAIRING THE SESSIONS FOR NATIONAL / INTERNATIONAL SEMINARS: (20)

| SL. NO | YEAR | VENUE | TOPIC OF SEMINAR | ACT AS | SEMINAR TYPES |
|--------|----------------------------------------------------|--------------------|------------------------------------------------------|-------------|---------------|
| 1. | 23 rd & 24 th March, 2013 | Alipurduar College | Rural Development: Challenges & Opportunities | Chairperson | National |
| 2. | 19 th -20 th Dec.2014 | CU | Environmental Perspective and Resource Management | Chairperson | International |
| 3. | 19 th -20 th Dec.2014 | CU | Environmental Perspective and Resource Management | Rapporteur | International |
| 4. | 6 th -7 th Mar.2014 | NBU | Land, People and Society | Rapporteur | National |

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| 5. | 25 th & 26 th Aug, 2016 | Cooch Behar College | Environmental Degradation and Disasters-A Vision plan for sustainable Development | Co-Chairperson | National |
| 6. | 26 th -28 th Dec. 2017 | Ravenshaw University, Cuttack | Population, Environment & and Sustainable Development | Chairperson | National |
| 7. | 8 th -10 th Feb. 2018 | IGU, Gauhati University | Environment and Sustainable Livelihood | Chairperson | International |
| 8. | 23 rd Feb. 2018 | Indian Chamber of Commerce, CoB | Disaster Management in different Zones of West Bengal | Main Speaker | State level |
| 9. | 21 st & 22 nd March, 2018 | 4 th International seminar | "Population, Urbanization and Environment: Contemporary Issues and Challenges" | Chairperson | International |
| 10. | 21 st & 22 nd March, 2018 | 4 th International seminar | "Population, Urbanization and Environment: Contemporary Issues and Challenges" | Co- Chairperson | International |
| 11. | 9 th Jan to 11 th Jan, 2020 | International Conference, CBPBU | Cognitive Science, Language & Reality | Chairperson | International |
| 12.. | 10 th Sept & 11 th Sept. 2020 | Diamond Harbour Women's University | "Innovation in Disaster Risk Reduction: Eyeing Towards A Resilient Society" | Co-Chairperson | International |
| 13. | 19 th Dec. 2020 | Gazole Mahavidyalaya, Malda | "Contemporary Environmental Issues and Challenges from Multidisciplinary Standpoint: Suitable Development at the Crossroads" | Chairperson | International |
| 14. | 11 th & 12 th Nov. 2022 | International Seminar, Department of Geography, CBPBU & Foundation of Practicing Geographers, Kolkata | Essence of Geography. What, Where & How | Chairperson & Organizing Secretary | International |
| 15. | 11 th & 12 th Jan. 2023 | Dept. of Science and Technology & Biotechnology, Govt. of West Bengal and UGB | 5th Regional Science Congress | Judge & Panelist | National |
| 16. | 27 th & 28 th Jan. 2023 | Foundation of Practicing Geographers, Kolkata | Decoding Geography | Chairperson | International |
| 17. | 1 st & 2 nd July, 2023 | Dept. of Geography and Applied Geography, NBU | Urbanization, Urban Environment and Sustainability in Himalayan and Sub-Himalayan region | Chairperson | National |
| 18. | 1 st & 2 nd Sept., 2023 | International Seminar Dept. of Geography, Rampurhat College, Birbhum, West Bengal | Recent Advancement in Geographical Studies A Multidimensional Outlook | Chairperson | International |
| 19. | 6 th Jan. 2024 | One Day National Level Seminar, NNS, CBPBU | YUVA SAMVAD: INDIA @ 2047 | JUDGE & Speaker | National |

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| 20. | 25 TH -28 TH Jan., 2024 | International Conference Dept. of Geography and Applied Geography, NBU | Emerging Issues in Environment, Livelihood and Development: A future Road Map towards Sustainable Earth | Chairperson | International |
|-----|--------------------------------------------------|------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|-------------|---------------|

K. NATIONAL/STATE LEVEL INVITED LECTURES: (30)

| SL. NO | DATE & VENUE | ORGANIZED BY | TOPICS | ACT AS |
|--------|------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|-------------------------------------------|
| 1. | 10.10.2006 COB | Office of the District Magistrate, Govt. of West Bengal | Observance of National Day for Disaster Reduction, 2006, COB | Resource Person & Speaker |
| 2. | 14.04.2013 COB | Bangiyu Bhugol Manch | Energy Conservation and Pollution Control | Resource Person & Speaker |
| 3. | 05.05.2016 WBSU | West Bengal State University, NSS | Youth Motivation | Resource Person & Speaker |
| 4. | 26.11.2016 Sitalkuchi College | Sitalkuchi College, COB | Morphometric Techniques and its Application | Resource Person & Speaker |
| 5. | 20.02.2017 WBSCHE | West Bengal State Council for Higher Education | Co-Ordination of Under and Post Graduate Syllabus | Speaker, as a Controller of Exams., CBPBU |
| 6. | 16.02.2018 COB | Indian Chamber of Commerce and Department Disaster Management, Govt. of West Bengal | Flash Flood | Resource Person & Speaker |
| 7. | 29.03.2018 Behala College, Kolkata | Dept. of Geography & Defence Studies, Behala College | Altitudinal Hazards at Mountain Region and its Effect on Defence..... | Resource Person & Speaker |
| 8. | 20.12.2019 CoB College | DST Programme, Govt. of West Bengal. CoB College, Cooch Behar | Water Crisis in India and its mitigation | Resource Person & Speaker |
| 9. | 30 th & 31 st Aug. 2020 RKSMV & Shymaprasad College | Dept. of Geography | Research Methodology & Field Work | Resource Person & Speaker |
| 10. | 22 nd Sept. 2020 TDHCKJ College | Dept. of Geography | Contemporary Issues and Challenges from Geographers' Perspective | Resource Person & Speaker |
| 11. | 22 nd March, 2021 Dinhata College Cooch Behar | Dept. of Geography Dinhata College Cooch Behar | "World Water Day" Rivers in Crisis | Resource Person & Speaker |
| 12. | 26 th April, 2021 Diamond Harbour Women's University | Dept. of Geography Diamond Harbour Women's University Diamond Harbour, South 24 Pgs (Sourh) | Application of Research Methodology in the Field of Geographical Research | Resource Person & Speaker |
| 13. | 3 rd July, 2021 | Dept. of Geography, Cooch Behar College, Cooch Behar | Major Contemporary Issues and its Recent Trends in Geographical Studies | Resource Person & Speaker |
| 14. | 20 th Dec. 2021 | Dept. of Geography, Hiralal Mazumdar Memorial College for Women, Kolkata | Data and Techniques of Hazard Mapping | Resource Person & Speaker |

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| 15. | 11 th May, 2022 | Dept. of Political Science, Cooch Behar College, Cooch Behar | Climate Change | Resource Person & Speaker |
| 16. | 6 th & 7 th Dec.2022 | Dept. of Geography, Sadhu Ramchand Murmu University of Jhargram (SRCM),Jhargram | Lecture Series on Contemporary Issues, Anthropogeomorphology, and GIS | Resource Person & Speaker |
| 17. | 8 th Dec. 2022 | Dept. of Geography, Ananda Mohan College Kolkata | Without Proper Utilization of Water Resource in our daily life, in future its crisis must be shown for our future Generation | Resource Person & Speaker |
| 18. | 9 th Dec.2022 | Dept. of Geography Sudhiranjan Lahiri Mahavidyalaya Majdia, Nadia | Human Trafficking and It's Influences on Cross Border Migration to West Bengal from Bangladesh, Nepal, Bhutan and Neighboring Countries. | Resource Person & Speaker |
| 19. | 10 th to 14 th April, 2023 | Dept. of Geography Dhugguri Girls' College Dhugguri, Jalpaiguri | Workshop on How to use QGIS | Resource Person |
| 20. | 27 th April, 2023 | Dept. of Geography Cooch Behar College, Cooch Behar | Topographical Maps and its Geographical Representations | Resource Person & Speaker |
| 21. | 3 rd May,2023 | Dept. of Geography Kanyashree University, Nadia | Application of Research Methodology in Geographical Research | Resource Person & Speaker |
| 22. | 25 th July to 27 th July,2023 | Purbasha Eco-help line Society & Others organizations (UNESCO) Satjelia chargheri, Sundarbans | Observance of World Mangrove Day | Resource Person & Speaker |
| 23. | 24 th Sept.,2023 | Mc William School Auditorium, Alipurduar | Observance of World River Day | Resource Person |
| 24. | 25 th Sept.-2 nd Oct., 2023 | Dept. of Geography Dinhata College, Cooch Behar | 7 Days National Workshop on Q GIS & Computer application in Geography | Resource Person & Speaker |
| 25. | 28 th Nov., 2023 | Dept. of Geography Krishnagar Women's College Nadia | Special Lecture on Concept of Research Methodology | Speaker |
| 26. | 15 th & 16 th Jan., 2024 | Dept. of Geography, Jalpaiguri A.C. College with collaboration of DST Govt. of West Bengal. | 6 th Regional Science Congress | Speaker |
| 27. | 15 th & 16 th March,2024 | Dept. of Geography, Dinhata College, Cooch Behar | Two day National Level Seminar on Sustainable Development and Environment-A way of Self Sufficiency | Resource Person/ Speaker |
| 28. | 13 th to 18 th May, 2024 A Week-long Workshop | Dept. of Geography Cooch Behar College, Cooch Behar | A 6-day National Level Workshop On Geoinformatics & Use of AI | Special Guest & Speaker |

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| | | | Tools for Geographical Research | |
| 29. | 24 th & 25 th May, 2024 | Dept. of Geography Sitalkuchi College | A 2-day Workshop on know the Techniques of Minor Instruments: A Training cum Workshop | Resource Person & Speaker |
| 30. | 27 th May,2024 | Dept. of Geography A.B.N Seal College Cooch Behar | Prof. S.C. Mukhopadhyay Memorial Lecture | Speaker |

L. WORKSHOPS: (10)

| SL. NO. | YEAR | ORGANIZER AND VENUE | TOPIC OF WORKSHOPS | ACT AS |
|---------|-----------------------------------------------------------|-----------------------------------------------------|------------------------------------------------------------------------|-------------------------|
| 1. | 9 th -11 th Oct.2004 | Nehru Yuva Kendra, COB, Govt. of India | Workshop on Scientific Awareness | Participant |
| 2. | 5 th Sept.2006 | WBSCST & A.B.N Seal College. | "Intellectual Property Rights" | Participant |
| 3. | 4 th April 2010 | Netaji Subhas Open University, Cooch Behar College. | About Distance education | Participant |
| 4. | 22 nd and 23 rd Feb.2011 | Department of Geography, NBU. | Modern trends in Geography. | Participant. |
| 5. | 25 th Mar.2013 | Netaji Subhas Open University, Cooch Behar College. | Good Governance of the Study Centres of Netaji Subhas Open University. | Participant |
| 6. | 9 th May- 13 th May,2016 | West Bengal State University, Kolkata | Youth Motivation | Speaker |
| 7. | 19 th Sept.2016 | Dept. of Geography, Cooch Behar College | Disaster Awareness and Management Programme. | Speaker |
| 8. | 3 RD Dec. to 9 th Dec.,2018 | Dept. of Geography, CBPBU | Application of SPSS in Geographical Research | Participant & Organizer |
| 9. | 26 th Aug. to 1 st Sept. 2019 | Dept. of Geography, CBPBU | Research Methods in Geography | Participant & Organizer |
| 10. | 26 TH April to 28 th April,2022 | Dept. of Geography, CBPBU | Application of STATA and AMOS Software in Geographical Research | Participant & Organizer |

CURRICULUM VITAE

M.COLLOQUIUM :(01)

| SL. NO. | YEAR | ORGANIZER AND VENUE | TOPIC OF CONFERENCE | NAME OF THE CONTRIBUTION OF PAPERS |
|---------|-----------------------------|----------------------------------------|---------------------------------------------|------------------------------------|
| 1. | 5 th Mar.2004 | Environmental Science & Technology, JU | Role of Atmosphere and Soil in Agriculture. | Participants. |

N. TRAINING COURSES :(03)

| Sl. No. | Venue | Date | Grade |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------|
| 1. | H.M.I Basic course for Mountaineering, Darjeeling | 18. 11. 2000-15. 12.2000 | A |
| 2. | Foundation Course in Remote sensing & GIS 21 st CenturyGIS Academy,Kolkata-700026 | 17. 10. 1013-31. 10.2013 | A |
| 3. | Eight-week Certificate course in RS & GIS, West Bengal Dept. of Higher Education, Science and Technology and Biotechnology Geoinformatics and Remote Sensing Cell, Kolkata. | 04. 06. 2018-27. 07.2018 | A |

O. OTHERS 4 WEEKS TRAINING COURSES :(03)

P. TOTAL PUBLICATIONS: (67)

Q. ACCEPTED BUT PENDING PUBLICATIONS: (10)

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LIST OF PUBLICATIONS IN JOURNALS: (45)

- **Saha, P and Gayen, S.K., (2024).** An integrated multi-criteria decision analysis and geographic information system-based assessment of groundwater potentiality and stress zones for sustainable agricultural practices: A case study of agriculture-dominating Koch Bihar District, West Bengal. ***International Journal of Energy and Water Resource***, Springer Publishing Company, Germany. <https://doi.org/10.1007/s42108-024-00286-z>
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- **Raha, S. and Gayen, S. K., (2023).** Assessment of Educational Potentiality of Central and Southern States of India Using A New Composite Education Index (CEI). ***Journal of Geographical Studies, 7(1), 26-53.*** DOI: <https://dx.doi.org/10.21523/gcj5.23070103>
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- **Dutta, R and Gayen, S.K. (2023).** Mapping the Channel Migration Zone of Raidak-I River of West Bengal, India using RS-GIS Techniques. ***Indian Journal of Spatial Science (IJSS)2023. Vol.14, Issue No.1, Spring Issue, 2023, PP. 35-42.***
- **Ghosh, S., Das, D., Gayen, S. K., and Bhardwaj, P. (2023).** Delineation of groundwater potential zones using the AHP technique: a case study of Alipurduar district, West Bengal. ***Modeling Earth Systems and Environment (2023),*** <https://link.springer.com/article/10.1007/s40808-023-01733-2>
- **Debnath, M., Islam, N., Gayen, S.K., Roy, P.B., Sarkar, B. (2023).** Prediction of Spatio-temporal (2030 and 2050) land-use and land-cover changes in Koch Bihar urban agglomeration (West Bengal), India, using artificial neural network-based Markov chain model. ***Modeling Earth Systems and Environment (2023),***<http://dx.doi.org/10.1007/s40808-023-01713-6>
- **Raha, S. and Gayen, S.K. (2022).** Application of Analytic Hierarchy Process and weighted sum techniques for green tourism potential mapping in the Gangetic West Bengal, India. ***Geo Journal (ISSN: 1572-9893, 0343-2521), Springer Netherland, Date of publication 2022/03/08, Pp-1- 44.***
- **Raha, S. and Gayen, S.K. (2022).** Tourism Potentiality Zone Mapping by Using the AHP

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Techniques: A Study on Bankura District, West Bengal, India. *Journal of Geographical Studies (ISSN 2582-1083) (Online), Vol.6, Issue. 2, PP-58-85, Gatha Cognition*
<http://dx.doi.org/10.21523/gcj5>

- **Raha, S. and Gayen, S.K. (2022).** Analysis of Rainfall Trend along with Change-point: Study on Purulia District, West Bengal, India. *Journal of Earth Sciences and Technology (JEST) ISSN: 2719-4094, Vol.3, Issue No. 3(2022), PP-111-129*
- **Gayen, S.K., Biswas, C., Poddar, S. (2022).** Seasonal Tourism, Livelihood and Income Instability of Mountaineering Sherpas of West District, Sikkim, India. *Indian Journal of Spatial Science (IJSS), EISSN: 2249-4316, ISSN: 2249-3921. Volume: 13 No: 03, Autumn Issue, 2022. PP- 86-91.*
- **Dey, S. K. and Gayen, S. K. (2022).** Ravage caused by industrial effluents- A case study on transboundary river Mathabhanga-Churni, Nadia, West Bengal. *Indian Journal of Spatial Science (IJSS) EISSN: 2249-4316, ISSN: 2249-3921), Vol. 13, Issue. 2 (Summer Issue), Pp-16-21*
- **Raha, S. and Gayen, S.K. (2022).** Tourism potential zone mapping using the Fuzzy analytic hierarchy process and geographical information system: A study on Jharkhand State, India. *Asia-Pacific Journal of Regional Science, Springer Nature, 2022/05/03.*
DOI: <https://link.springer.com/article/10.1007/s41685-022-00237-8>
- **Raha, S. and Gayen, S. K. (2021).** Comparative study of different exponential smoothing models in simulation of meteorological drought: A study on Purulia district, West Bengal, India. *Journal of Applied and Natural Science (ISSN: 2231-5209 Online) Vol.13, Issue. 2, Pp. 504-511*
- **Roy, K., Seal Sarma, U. and Gayen, S.K. (2021).** Assessment of variation of Land Surface Temperature in response to Land Use/ Land Cover changes in Cooch Behar-I block, India. *Adalya Journal, Vol.10, Issue. 11, Nov. 2021, Pp-72-87,*
DOI: <https://doi.org/10.37896/aj10.11/007>
- **Gayen, S.K. and Roy, K. (2021).** Spatio-temporal Analysis of the Enrolment Status of Scheduled Caste Population in Schools of Birbhum District, West Bengal. *Indian Journal of Spatial Science. A Bi-Annual Peer-Reviewed/ Refereed Journal (ISSN: 2249 - 3921), Vol.12, Spring Issue 2021, Pp. 77- 88*
- **Raha, S. and Gayen, S. K. (2021).** Ecotourism potential zone mapping by using analytic hierarchy process (AHP) and weighted linear algorithm: A study on West Bengal, India. *Journal of Geographical studies (ISSN:2582-1083 online), Vol. 5, Issue-2, Pp-44-64*
- **Dey, S. K. and Gayen, S. K. (2020).** The Status of Agricultural Productivity Based on Kendall's Method in selected Blocks of Mathabhanga-Churni River Basin, Nadia District, West Bengal. *Indian Journal of Regional Science (ISSN: 2456-6519) Vol.52, Issue. 2, Pp-19-27*

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- **Roy, K. and Gayen, S.K. (2020).** Analysis of Sinuosity and Temporal Shifting of Channel Belt of the Kaljani River in the Foothills of the Eastern Himalaya in Cooch Behar District, West Bengal. *Indian Journal of Landscape System and Ecological Studies (ISSN:0971-4170), Vol.43, Issue.2, Pp. 158-168*
- **Raha, S. and Gayen, S. K. (2020).** Simulation of meteorological drought using exponential smoothing models: a study on Bankura District, West Bengal, India. *SN Applied Sciences, 2020, Springer Nature, <https://doi.org/10.1007/s42452-020-2730-3>*
- **Dey, S.K. and Gayen, S.K. (2020).** Disparity in Agricultural Productivity and Ground Water Conditions in Nadia District of West Bengal. *The Journal of Centre for Ground Water Studies (ISSN: 2347-8063), Vol. 15, Issue-2, Pp. 89-101*
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- **Raha, S. and Gayen, S. K. (2019).** Drought induced human migration of Purulia District, West Bengal: A Geographical Analysis. *Thematics Journal of Geography, India, (ISSN: 2277-2995). Vol.8 No.4, PP. 288-297 [Impact Factor: 5.255]*
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- **Raha, S., Gayen, S. K. and S. Deb (2019).** Simulation and Prediction of Tourist Inflow in Bankura District, West Bengal. *Adalya Journal (ISSN No: 1301-2746) Vol.8, Issue: 12, pp- 332-338.*

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- Raha, S. and Gayen, S. K. (2018). Model ARIMA in prediction of Relative Relief and Drainage density: A Study on Purulia District, West Bengal, India. *International Journal of Innovative knowledge concept* (ISSN: 2454-2415), Vol.6, Issue 11, November, 2018, pp.115-125. DOI: 11.25835/IJK-320 www.doie.org
- Gayen, S.K. and Raha, S. (2018). Application of Machine Learning in Analysis of Folklorian data: An Overview. *IJRAR International Journal of Research and Analysis, Reviews*, (EISSN: 2348-1269, Print ISSN: 2349-5138), Vol.5, Issue.3, July-Sept.2018, pp.1800x-1803x [Impact Factor: 4.236]
- Gayen, S. K. (2018). The friend, philosopher and guide of high altitude mountaineering sports: The activities of Sherpas; *Uttar Prasanga*, ISSN: 2348-2036, pp. S46-53.
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- Gayen, S. K. and Mondal, M. (2011). Impacts of pollutants of Kolaghat thermal power plant on Environment and Biodiversity. *Institute of Landscape, Ecology & Ekistics (ILEE), Kolkata* (ISSN: 0971-4170), Vol.34, No.2, pp.439- 444.
- Gayen, S. K. (2006). Land Potential of the Torsa Basin, West Bengal; *Institute of Landscape, Ecology & Ekistics (ILEE)*, (ISSN: 0971-4170), Vol.-29; No-2, pp.133-136.

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- Podder, S., Sarkar, P., and Gayen, S. K. (2023). A Case Study of Channel Shifting and Its Impacts on Riverside Land Use and Land Cover Using RS and GIS in Teesta River in Jalpaiguri, West Bengal, India. **Book: *Environmental Management and Sustainability in India: Case Studies from West Bengal, Springer International Publishing. PP. 57-74, https://link.springer.com/chapter/10.1007/978-3-031-31399-8_4***
- Roy, K., Saha, P., Das, S., Mandal, M., Gayen, S.K. (2023). Monitoring the shifting nature of River Singimari and its Impact on Riverside Land Use and Landcover in Dinhata-I and Sitai Blocks of Cooch Behar District, West Bengal, India. **Book *Environmental Management and Sustainability in India: Case Studies from West Bengal, Springer International Publishing. PP.75-99, https://link.springer.com/chapter/10.1007/978-3-031-31399-8_5***
- Sarkar, P., Mondal, M., Roy, K., Sharma, U. S and Gayen, S. K. (2022). Morphometric Analysis to Prioritize for Flood Risk of Sub-Watersheds of Teesta (Sikkim and West Bengal) Through Hazard Degree (HD) and Principal Component Analysis with... **Book: *Fluvial Systems in the Anthropocene, Springer, Cham, (ISBN 978-3-031-11181-5) (eBook), PP-237-264, DOI: [10.1007/978-3-031-11181-5_13](https://doi.org/10.1007/978-3-031-11181-5_13)***
- Raha, S., Dey, S.K., Mondal, M., Gayen, S.K. (2022). Spatiotemporal Assessment of Drought Intensity and Trend Along with Change Point: A Study on Bankura District, West Bengal, India. **Book: *Applied Geomorphology and Contemporary Issues, Springer Nature, Cham (ISBN 978-3-031-04532-5), PP-655-666, https://doi.org/10.1007/978-3-031-04532-5_34***
- Biswas, C., Roy, K., Dutta, R., Gayen, S.K. (2022). An Exploratory Analysis of Mountaineering Risk Estimation Among the Mountaineers in the Indian Himalaya. **Book: *Applied Geomorphology and Contemporary Issues, Springer Nature, Cham (ISBN 978-3-031-04532-5), PP-709-720, https://doi.org/10.1007/978-3-031-04532-5_34***

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- **Senapati, U., Raha, S., Das, T. K. and Gayen, S. K. (2021).** A Composite Assessment of Agricultural Drought Susceptibility Using Analytic Hierarchy Process: Case Study of Western Region of West Bengal. Agriculture, Food and Nutrition Security: A Study of Availability and Sustainability in India. ***Springer Nature*, (ISBN: 978-3-030-69332-9, 978-3-030-69333-6) (e-Book), Chapter-2, Pp.15-40.** <https://doi.org/10.1007/978-3-030-69333-6>
- **Raha, S. and Gayen, S. K. (2020).** Drought-Induced Human Mobility in Purulia District of West Bengal. ***Habitat, Ecology and Ekistics, 2021, Springer Nature Switzerland AG 2021,*** ISBN: 978-3-030-49115-4. Chap.15, Pp.263-277
- **Dey, S. K., Gayen, S. K., and Dey, K. (2019).** Industrialization, Mining and Urbanization vis a vis Hirakud Dam. ***Environmental Degradation: it's Remedies & Prospects*, (ISBN: 978-81-939370-1-3, Pp.148-158).**
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- **Gayen, S. K., and Mondal, M. (2015).** Effects of Climate Changing on Ecosystem and Biodiversity- “A Case study of Cooch Behar District; ***Environmental perspectives and Resource Management*, (ISBN:978-81-928047-4-3),Vol.-II,2015,Pp.101-108**
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- **Gayen, S. K., and Mondal, M. (2014).** Why Application of Remote Sensing is Necessary in Geographical Study? ***Population, Urbanization and Changing State of Environment*, (ISBN: 978-93-84671-04-4),Pp.325-332.**
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- **Gayen, S. K. (2011):** Geomorphology of the Torsa Basin West Bengal with special reference to land and water use. The Shodhganga @ INFLIBNET Centre provides a platform for research students to deposit their Ph. D. theses and make it available to the entire scholarly community in open access. Shodhganga Mirror Site.
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