

Curriculum Vitae

Prof. Dr. ASHIS KUMAR SAHA

Affiliation

Professor (Remote Sensing, Computer and GIS)
Department of Geography,
Delhi School of Economics,
University of Delhi, India



Contact Details

Mailing Address Department of Geography
Delhi School of Economics
University of Delhi
Delhi – 110 007, INDIA

E-Mail ashisksaha@gmail.com,
aksaha@geography.du.ac.in

Phone +91-11-27666491(O)

Cell Phone +91-9818503393

URL <http://people.du.ac.in/~aksaha/>
<https://www.aksaha.in>

Academic Qualification

Ph.D. (2004) In **Earth Sciences** from Department of Earth Sciences, Indian Institute of Technology Roorkee, Roorkee, India
Topic: **“GIS-based Study for Route Planning in Landslide Susceptible Terrain”**

M.Tech. (1999) In **Applied Geology** from Department of Earth Sciences, University of Roorkee (Now IIT Roorkee), Roorkee, India with special courses on Remote Sensing, Environmental Geosciences, GIS, Numerical Methods & Computer Programming, Obtained: **82.7%** marks (1st Division with Honors)
Dissertation Topic: **“Landslide Hazard Zonation Studies in the Bhagirathi Valley- using Remote Sensing - G.I.S.”**

B.Sc. (1996) In **Geology (Honors)** from Department of Geology, Presidency College, University of Calcutta, Kolkata, India
Obtained: **71%** marks (1st Class)

Studies Abroad

DAAD – Sandwich Model Fellowship

Jun 2001 -
Sep 2002

- 4–month German language course at Goethe Institute, Dresden, Germany
- 1–year Doctoral Research at Institute of Photogrammetry and Remote Sensing, Dresden University of Technology, Dresden, Germany

Employment

7th Apr 2020 -
- till date **Professor (Remote Sensing and GIS)**
at Department of Geography, University of Delhi, Delhi, India

7th Apr 2017 -
- 6th Apr 2020 **Associate Professor (Remote Sensing and GIS)**
at Department of Geography, University of Delhi, Delhi, India

6th Apr 2005 -
- 6th Apr 2017 **Assistant Professor (Remote Sensing and GIS)**
at Department of Geography, University of Delhi, Delhi, India

1st Dec 2004 -
- 31st Mar 2005 **Senior Research Associate (Landscape Ecology / Hydrology Group)**
at Ashoka Trust for Research in Ecology and the Environment (ATREE), Bangalore, India

Awards

1991-1996	Indian National Scholarships
1998-1999	University Grants Commission Scholarship
1999	B.L.Wadhawan Prize for highest marks in M.Tech. (Appl. Geology Dissertation)
1999	S. Devi Prize for highest marks in the final year in all PG Science Courses

Fellowships

2000 - 2001	Junior Research Fellowship from Council for Scientific and Industrial Research (CSIR), New Delhi, India
2001 – 2002	German Academic Exchange Service (DAAD) Sandwich Model Fellowship, Bonn, Germany
2002 – 2004	Senior Research Fellowship from Council for Scientific and Industrial Research (CSIR), New Delhi, India
2009	German Academic Exchange Service (DAAD) Re-invitation Fellowship, Bonn, Germany
2014	German Academic Exchange Service (DAAD) Re-invitation Fellowship, Bonn, Germany
2018	German Academic Exchange Service (DAAD) Re-invitation Fellowship, Bonn, Germany

Specialized Training

2 nd Jun- 23 rd Jun 1998	“Mine Training” at Mochia Pb-Zn mine, Zawar, Rajasthan
6 th Dec- 17 th Dec 1999	“SAR Interferometry Technology and Application” at CSRE-IIT Bombay, India
31 st Mar- 5 th Apr 2003	“GIS and Remote Sensing for Disaster Mitigation” at GIS Institute, Noida, India
13 th Oct- 18 th Oct 2003	“GPS Applications for Landslide and Resource Planning” at IIT Roorkee, India
8 th Dec- 12 th Dec 2003	“Landslide Analysis and Control” at IIT Roorkee, India
11 th Jan- 13 th Jan 2005	“Modelling Land-Use Land-Cover Change and Species Distribution” at ATREE, Bangalore, India
6 th May- 3 rd Jun 2008	“Orientation Course” for Lecturers at Centre for Professional Development in Higher Education (University Grants Commission – Academic Staff College), University of Delhi, Delhi, India
5 th Sep- 25 th Sep 2017	“Refresher Course in Summer School (Inter-disciplinary)” at Centre for Professional Development in Higher Education (University Grants Commission – Academic Staff College), University of Delhi, Delhi, India
29 th Jan- 2 nd Feb 2018	“One Week National Level Training of Trainers Program on Drought Assessment” at National Institute of Disaster Management, Ministry of Home Affairs, Government of India, New Delhi, India
18 th Dec- 24 th Dec 2018	“Short Term Course on Research Methodology (Inter-disciplinary)” at Centre for Professional Development in Higher Education (University Grants Commission – Academic Staff College), University of Delhi, Delhi, India

Technical Skills

<i>Image Processing</i>	ERDAS Imagine, Leica Photogrammetry Suit, eCognition Developer, ENVI
<i>GIS Software</i>	ArcGIS, ILWIS, Idrisi TerrSet, MapInfo, QGIS
<i>Hydrology</i>	WMS
<i>Programming</i>	FORTTRAN, C and C++

Teaching Experience

Total Experience >19 Years

Subjects Taught **MA (Geography) CBCS w.e.f. July 2019**

- GEOG2C03: Remote Sensing and Geographical Information System (Practical)
- GEOG3E05: Digital Image Processing (Practical)
- GEOG3E06: Geographic Information System (Practical)
- GEOG4E12: Terrain Modelling

MA (Geography) Old Syllabus up to June 2020

- Remote Sensing and GIS (Fundamentals and Advanced)
- Computer Applications in Geography (Old Syllabus)
- Computer-Aided Mapping and Thematic Atlas
- Terrain Modelling and Analysis
- Natural Hazards and Disaster Management
- Advanced Physical Geography

PhD/MPhil (Geography)

- Research Methodology
- Advance Spatial Analysis
- Environmental Monitoring and GIS; Natural Hazards and Disaster

MA/MSc (Environmental Studies)

(at School of Environmental Studies, Delhi Univ. as a Guest Lecturer)

- Methodologies in Environmental Studies (2005-2009)
- Environmental Hazards (2006)

BSc (Geology) (at Department of Geology, Delhi Univ. as a Guest Lecturer)

- Photogeology, Remote Sensing and GIS (2009-2010)

Research Experience

Total Experience >19 years (post-PhD)

Areas of Interest **Geo-environmental Studies using Remote Sensing and GIS: Landslide Hazard Zonation; Landuse / Landcover Mapping and Change Detection; OBIA; Digital Image Classification; Drought; Digital Terrain Modeling**

Peer-reviewed journals: **23** (Impact Factor 2023: **0-8.5**)

(Max Citation: **338**; Total Citation: **1126 - Scopus**)
h-index: **11 (Scopus)**

Publication

Other research articles: **2**

Chapter in books/proceedings: **13** (International: 8, National: 5)

Research Projects

- **“Remote Sensing – GIS based Landslide Inventory Mapping and Susceptibility Zonation using Analytical Hierarchy Process (AHP) in a Himalayan Terrain”**

Funded by: University of Delhi; Duration: Phase-I, II & III (2008-11)

Grant Amount: Rs. 285,000

- **“Development of Object-based Remote Sensing – GIS Methodology for Landslide Recognition and Hazard Zonation in the Garhwal Himalayas”**

Funded by: Department of Science & Technology, Government of India under SERC Fast Track Proposal for Young Scientists, 2010-11;

Duration: 3 Years (2011-14) Grant Amount: Rs. 175,7000

- **“Landslide Susceptibility Zonation using Weights-of-Evidence and Logistic Regression Model: A Comparative Analysis in the Chamoli-Joshimath Road Section, Uttarakhand”** Funded by: University of Delhi; Duration: Phase-I & II (2011-13) Grant Amount: Rs. 190,000

- **“Landuse/landcover change detection using Object-based Image Analysis (OBIA) approach in Chamoli Region (Uttarakhand)”** Funded by: University of Delhi; Duration: Phase-I (2013-14) Grant Amount: Rs. 60,000
- **“Mapping and Monitoring of Mangroves in Indian Sundarban using Time-Series Remote Sensing Data”** Funded by: University of Delhi; Duration: Phase-I (2015-16) Grant Amount: Rs. 1,50,000

<i>Ph.D. thesis supervised</i>	5 (awarded) and 8 (in progress)
<i>M.Phil. thesis supervised</i>	15 (awarded)
<i>MA thesis supervised</i>	68 (awarded)

Professional Society Membership

Life Member, *Indian Society of Remote Sensing*, Dehradun, India
 Life Member, National Association of Geographers, India (NAGI), Delhi, India
 Life Member, *The Association for Geographical Studies*, Delhi, India
 Fellow, *The Society of Earth Scientists*, Lucknow, India
 Life Member, *The Indian Science Congress Association*, Kolkata, India
 Member, *European Drought Centre*
 Member, *International Association for Promoting Geoethics (IAPG)*
 Joint Secretary, *National Association of Geographers, India (NAGI)*

Reviewer

GeoCarto International (Taylor & Francis)
 Journal of Zhejiang University-SCIENCE A (Springer)
 Journal of Development & Agricultural Economics (Academic Journals)
 Journal of Mountain Science (Springer)
 Environmental Earth Sciences (Springer)
 Cartography and Geographic Information Science (Taylor & Francis)
 Indian Journal of Geosciences (Geological Survey of India)
 Geomatics, Natural Hazards and Risk (Taylor & Francis)
 Natural Hazards (Springer)
 Disaster and Development (NIDM)
 Journal of Indian Society of Remote Sensing (Springer)
 GeoRisk (Taylor & Francis)
 Egyptian Journal of Remote Sensing (Elsevier)
 Asian Journal of Water, Environment and Pollution (Capital Publishing)
 Land Degradation & Development (Wiley)
 Remote Sensing Letters (Taylor & Francis)
 Arabian Journal of Geosciences (Springer)
 Springer Nature Applied Sciences (Springer)
 IEEE Transactions on Geoscience and Remote Sensing (IEEE)
 SAGE Open (Sage Publications)
 Ecology and Evolution (Wiley)
 Physical Geography (Taylor & Francis)
 International Journal of Geoheritage and Parks (Elsevier)
 Proceedings of the Indian National Science Academy (Springer)
 Sustainability (MDPI)
 Current Science (Current Science Association)
 Indian Journal of Spatial Science (ISSS)

Himalayan Geology (WIHG)
Journal of Earth System Science (Springer)
Regional Studies in Marine Science (Elsevier)
Progress in Disaster Science (Elsevier)

Academic Administration

- Resident Tutor (RT) of Gwyer Hall (Hostel), Delhi Univ. (2005 – 2007)
- Member, Board of Research Studies in Social Sciences (2020 – 2022)

Personal Details

<i>Date of Birth</i>	16 th September 1974
<i>Sex</i>	Male
<i>Marital Status</i>	Married
<i>Nationality</i>	Indian
<i>Passport</i>	Valid Indian Passport
<i>Language Proficiency</i>	English, Bengali (Mother Tongue), Hindi, German
<i>Hobbies</i>	Photography, Globetrotting

Declaration

I hereby declare that the above particulars furnished by me are true to the best of my knowledge.

Place: Delhi

Date: September 1, 2024

(Ashis Kumar Saha)

Useful Links:

List of Publications: <https://www.aksaha.in/publications>

List of Supervision:

(a) PhD: <https://www.aksaha.in/supervision/phd-supervision>

(b) MPhil: <https://www.aksaha.in/supervision/mphil-supervision>

(c) MA: <https://www.aksaha.in/supervision/masters-dissertation>

(d) External Candidates: <https://www.aksaha.in/supervision/external-candidates>

Invited Lectures: <https://www.aksaha.in/teaching#h.75j5uqcurqge>

For Additional Information: <https://www.aksaha.in/home>

Vidwan ID: <https://du.irins.org/profile/308837>

Scopus Author: <https://www.scopus.com/authid/detail.uri?authorId=57204980000>

Google Scholar: <https://scholar.google.co.in/citations?user=wfUOfKcAAAAJ&hl=en>

ORCID: <http://orcid.org/0000-0002-8184-0495>

ResearcherID: <http://www.researcherid.com/rid/H-2298-2011>

List of Publications

(# Journal Impact Factor 2023 as published by Clarivate Analytics in July 2024 if otherwise not mentioned; * UGC-CARE Group-II Journals listed in Scopus Source List; ^ UGC-CARE Group-I Journals)

2024

- Deka P, Chowdhury G & **Saha AK** (2024) Impact of Landuse and Landcover Changes on Population Dynamics in Flood-prone Majuli Island, Assam, India - *Human Ecology**, 52(3):531-548 (Impact Factor 2023: 1.8; Citation - Scopus: 0) [ISSN: 0300-7839 (Print), 1572-9915 (Online)] [<https://doi.org/10.1007/s10745-024-00504-6>]
- Mondal B, Bhomia RK, **Saha AK** & Mackenzie RA (2024) Assessment of coastal and mangrove vulnerability in the Andaman Island, Indian Ocean - *Geoscience Frontiers**, 15(5):101820 (Impact Factor 2023: 8.5; Citation - Scopus: 0) [ISSN: 1674-9871 (Print), 2588-9192 (Online)] [<https://doi.org/10.1016/j.gsf.2024.101820>]
- Barhadiya G, Purkayastha J, **Saha AK** & Ghosh C (2024) Snakes in the city: Spatial and temporal assessment of snake encounters in urban Delhi, India - *Nature Scientific Reports**, 14(1):5506 (Impact Factor 2023: 3.8; Citation - Scopus: 0) [ISSN: 2045-2322 (Online)] [<https://doi.org/10.1038/s41598-023-50373-0>]
- Baidya A & **Saha AK** (2024) Exploring the research trends in climate change and sustainable development: A bibliometric study – *Cleaner Engineering and Technology**, 18:100720 (Impact Factor 2023: 5.3; Citation - Scopus: 6) [ISSN: 2666-7908 (Online)] [<https://doi.org/10.1016/j.clet.2023.100720>]
- Das S & **Saha AK** (2024) *Community Participation in Disaster Risk Reduction: A Case Study of Chamoli District, Uttarakhand*, In: Sharma VR & Chandrakanta (Eds.) *Making India Disaster Resilient*, Springer, Cham, 273-296 [ISBN 978-3-031-50112-8]. [https://doi.org/10.1007/978-3-031-50113-5_17]

2022

- Mondal B, **Saha AK** & Roy A (2022) Delineation of Mangrove Patches using Multiple Landsat-8 OLI-based Indices: A Case Study of Indian Sundarban and Surroundings – *Annals of the National Association of Geographers, India^*, 42(2): 256-273 [ISSN: 0970-972X (Print)] [<https://doi.org/10.32381/ATNAGI.2022.42.02.3>]
- Mondal B, Roy A & **Saha AK** (2022) Vulnerability assessment of mangrove areas in coastal West Bengal, India – *Remote Sensing Applications: Society and Environment**, 25:100680 (Impact Factor 2023: 3.8; Citation - Scopus: 5) [ISSN: 2352-9385 (Online)] [<https://doi.org/10.1016/j.rsase.2021.100680>]

2021

- Mondal B, **Saha AK** & Roy A (2021) Shoreline extraction and change estimation using geospatial techniques: a study of coastal West Bengal, India – *Proceedings of the Indian National Science Academy**, 87(4):595–612 (Impact Factor 2023: 1.2; Citation - Scopus: 6) [ISSN: 0370-0046 (Print) 2454-9983 (Online)] [<https://doi.org/10.1007/s43538-021-00059-w>]
- Mondal B, **Saha AK** & Roy A (2021) Spatio-Temporal Pattern of Change in Mangrove Populations along the Coastal West Bengal, India - *Environmental Challenges**, 5:100306 (Citation - Scopus: 8) [ISSN: 2667-0100 (Online)] [<https://doi.org/10.1016/j.envc.2021.100306>]
- Bandyopadhyay N & **Saha AK** (2021) *Watercentric roles and women's spaces: narratives from drought-prone villages of Gujarat*, In: Datta A (Ed.) *Gender, Space and Agency in India: Exploring Regional Genderscapes*, Routledge, London & New York, 120-132 [ISBN 978-1-003-01347-1]. [<https://doi.org/10.4324/9781003013471-9>]

[This chapter was initially published in *Proceedings of International Conference on Re Orienting Gender: Geographies of Resistance, Agency, Violence and Desire in Asia, 2015* (ISBN 978-93-82847-41-0), edited by A Datta as "Mapping Gender and Gendered Spaces in Drought-Prone Areas of Gujarat." The current Routledge International version has been thoroughly revised and peer reviewed.]

- Naithani S & **Saha AK** (2021) *Social Capital and Livelihood Strategies in Response after 2013 Kedarnath Disaster (India)* – *Disaster Prevention and Management**, 30(2):179-193 (Impact Factor 2023: 1.9; Citation - Scopus: 8) [ISSN: 0965-3562 (Print)] [<https://doi.org/10.1108/DPM-07-2019-0221>]

2020

- Bandyopadhyay N, Bhuiyan C & **Saha AK** (2020) Drought Mitigation: Critical Analysis and Proposal for a New Drought Policy with Special Reference to Gujarat (India) - *Progress in Disaster Science**, 5:100049 (Impact Factor 2023: 2.6; Citation - Scopus: 52) [ISSN: 2590-0617 (online)] [<https://doi.org/10.1016/j.pdisas.2019.100049>]
- Das S & **Saha AK** (2020) Identification of Landslide-prone Zones of Mandakini Valley (Central Himalaya) Post-Kedarnath Tragedy (2013) - *Annals of the National Association of Geographers, India*[^], 40(2):304-329 [ISSN: 0970-972X (Print)] [<https://doi.org/10.32381/ATNAGI.2020.40.02.8>]

2019

- Mondal B, **Saha AK** & Roy A (2019) Mapping Mangroves using LISS-IV and Hyperion Data in part of the Indian Sundarban – *International Journal of Remote Sensing**, 40(24):9380-9400 (Impact Factor 2023: 3; Citation - Scopus: 12) [ISSN: 0143-1161 (Print) 1366-5901 (Online)] [<https://doi.org/10.1080/01431161.2019.1630784>]
- Medhi, A & **Saha AK** (2019) Rural Road Extraction using Object Based Image Analysis (OBIA): A case study from Assam, India – In: Fujita, H. (Ed.) *Advances in Cartography and GIScience of the International Cartographic Association, Copernicus Publications, Germany*, 1:13 [eISSN: 2570-2084] [<https://doi.org/10.5194/ica-adv-1-13-2019>]
- Naithani S & **Saha AK** (2019) *Changing landscape and ecotourism development in a Large Dam site: A Case Study of Tehri Dam, India* – *Asia Pacific Journal of Tourism Research**, 24(3):193-205 (Impact Factor 2023: 4.3; Citation - Scopus: 8) [ISSN: 1094-1665 (Print) 1741-6507 (Online)] [<https://doi.org/10.1080/10941665.2018.1557226>]

2018

- Mondal B & **Saha AK** (2018) *Spatio-temporal analysis of mangrove loss in vulnerable islands of Sundarban World Heritage Site, India* – In: Mansourian A, Pilesjö P, Harrie L & van Lammeren R (Eds.) *Geospatial Technologies for All - Selected papers of the 21st AGILE Conference on Geographic Information Science*, Springer International, 93-109 (ISBN 978-3-319-78207-2) (Citation - Scopus: 8). [https://doi.org/10.1007/978-3-319-78208-9_5]

2017

- Bhuiyan C, **Saha AK**, Bandyopadhyay N & Kogan FN (2017) *Analysing the Impact of Thermal Stress on Vegetation Health and Agricultural Drought - A Case Study from Gujarat, India* – *GIScience & Remote Sensing**, 54(5):678-699. (Impact Factor 2023: 6; Citation - Scopus: 66) [ISSN: 1548-1603 (Print) 1943-7226 (Online)] [<https://doi.org/10.1080/15481603.2017.1309737>]
- Begum A & **Saha AK** (2017) *Facility Management System: A Case Study of University Campus* – In: Sharma P & Rajput S (Eds.) *Sustainable Smart Cities in India: Challenges and Future Perspectives*, Springer International, 213-225 (ISBN 978-3-319-47144-0) [https://doi.org/10.1007/978-3-319-47145-7_14]
- Das S & **Saha AK** (2017) *Community Based Disaster Management For Climate Change Adaptation: A Conceptual Model* – In: Negi VS (Ed.) *Climate Change Perspectives and Challenges in 21st Century*, Research India Press, New Delhi, 155-163 (ISBN 978-93-5171-094-3).
- Das S & **Saha AK** (2017) *GIS based Landslide Risk Assessment: A Case Study of Kandey Village, Chamoli District, Uttarakhand* – In: Pandey BW, Negi VS & Kumria P (Eds.) *Environmental Concerns and Sustainable Development in Himalaya*, Research India Press, New Delhi, 158-175 (ISBN 997-79-3517-1096-7).

2016

- Bandyopadhyay N, Bhuiyan C & **Saha AK** (2016) *Heat waves, temperature extremes and their impacts on monsoon rainfall and meteorological droughts in Gujarat, India* – *Natural Hazards**, 82(1):367-388. (Impact Factor 2023: 3.3; Citation - Scopus: 46) [ISSN: 0921-030X (Print) 1573-0840 (Online)] [<https://doi.org/10.1007/s11069-016-2205-4>]
- Bandyopadhyay N & **Saha AK** (2016) *A comparative analysis of four drought indices using geospatial data in Gujarat, India* – *Arabian Journal of Geosciences**, 9(5):341. (Impact Factor 2020: 1.827; Citation - Scopus: 15) [ISSN: 1866-7511 (Print) 1866-7538 (Online)] [<https://doi.org/10.1007/s12517-016-2378-x>]

2015

- Rai SC & **Saha AK** (2015) *Impact of urban sprawl on groundwater quality: a case study of Faridabad city, National Capital Region of Delhi* – *Arabian Journal of Geosciences**, 8(10):8039-8045. (Impact Factor 2020: 1.827; Citation - Scopus: 14) [ISSN: 1866-7511 (Print) 1866-7538 (Online)] [<https://doi.org/10.1007/s12517-015-1811-x>]
- Bandyopadhyay N, Bhuiyan C & **Saha AK** (2015) *Temperature Extremes, Moisture Deficiency and Their Impacts on Dryland Agriculture in Gujarat, India*, In: Andreu J, Solera A, Paredes-Arquiola J, Haro-Monteagudo D & van Lanen H (Eds.) *Drought: Research and Science-Policy Interfacing*, CRC Press, Balkema, 119-124 (ISBN 978-1-138-02779-4). (Citation - Scopus: 9) [<https://www.taylorfrancis.com/books/9781315687223/chapters/10.1201/b18077-21>]

2014

- Medhi A & **Saha AK** (2014) *Land cover change and rhino habitat mapping of Kaziranga National Park, Assam*, In: Singh M, Singh RB & Hassan I (Eds.) *Climate Change and Biodiversity: Proceedings of IGU Rohtak Conference*, Springer, Japan, 1:125-138 (ISBN 978-4-431-54837-9). [https://doi.org/10.1007/978-4-431-54838-6_10]
- Bandyopadhyay N & **Saha AK** (2014) *Analysing Meteorological and Vegetative Drought in Gujarat*, In: Singh M, Singh RB & Hassan I (Eds.) *Climate Change and Biodiversity: Proceedings of IGU Rohtak Conference*, Springer, Japan, 1:61-71 (ISBN 978-4-431-54837-9). [https://doi.org/10.1007/978-4-431-54838-6_5]

2013

- Kundu S, **Saha AK**, Sharma DC & Pant CC (2013) *Remote Sensing and GIS Based Landslide Susceptibility Assessment using Binary Logistic Regression Model: A Case Study in the Ganeshganga Watershed, Himalayas* – *Journal of Indian Society of Remote Sensing**, 41(3):697-709. (Impact Factor 2023: 2.2; Citation - Scopus: 51) [ISSN: 0255-660X (Print) 0974-3006 (Online)] [<https://doi.org/10.1007/s12524-012-0255-y>]
- Bandyopadhyay N & **Saha AK** (2013) *Analysis of Spatio-temporal Drought Pattern in Gujarat*, In: Singh G (Ed.) *Proceedings of National Seminar on Drought Mitigation: Special Reference to Rajasthan (DMRR-2013)*, Sagar Publishers, Jaipur, 1:3-8 (ISBN 978-93-81914-14-4).

2012

- Kundu S, Sharma DC, **Saha AK**, Pant CC & Mathew J (2012) *GIS-based Statistical Landslide Susceptibility Zonation: A Case Study in Ganeshganga Watershed, The Himalayas* – *ArclIndia News*, 6(1):26-31. [http://www.esriindia.com/~media/esri-india/files/pdfs/events/uc2011/papers/DM_UCP008.pdf]
- Mir S & **Saha AK** (2012) *Truncating the Life Cycle of a Tourism Destination: An Analysis of Tourism-Terrorism Relationship with Respect to Butler's TALC Model*, In: Aima A, Manhas PS & Bhasin J (Eds.) *Tourism Destination Management: Strategic Practices and Policies*, Kanishka Publishers Distributors, New Delhi, 374-389 (ISBN 978-81-8457-370-1).
- Arora MK, **Saha AK**, Gupta P & Gupta RP (2012) *LaSIRF: Landslide Safe Intelligent Route Finder for mountainous terrain in GIS environment*, In: Pradhan B & Buchroithner M (Eds.) *Terrigenous Mass Movements*, Springer-Verlag Berlin Heidelberg, 349-368 (ISBN 978-3-642-25495-6). [https://doi.org/10.1007/978-3-642-25495-6_11]

2005

- **Saha AK**, Gupta RP, Arora MK, Virdi ML & Csaplovics E (2005) *GIS-based route planning in landslide prone areas*, *International Journal of Geographic Information Science**, 19(10):1149-1175. (Impact Factor 2023: 4.3; Citation - Scopus: 71) [ISSN: 1365-8816 (Print) 1362-3087 (Online)] [<https://doi.org/10.1080/13658810500105887>]
- **Saha AK**, Gupta RP, Sarkar I, Arora MK & Csaplovics E (2005) *An approach for GIS-based Statistical Landslide Susceptibility Zonation – with a case study in the Himalayas*, *Landslides**, 2(1):61-69. (Impact Factor 2023: 5.8; Citation - Scopus: 338) [ISSN: 1612-510X (Print) 1612-5118 (Online)] [<https://doi.org/10.1007/s10346-004-0039-8>]
- **Saha AK**, Arora MK, Csaplovics E and Gupta RP (2005) *Land cover classification using IRS LISS III imagery and DEM in a rugged terrain: A case study in Himalaya*, *GeoCarto International**, 20(2):33-40. (Impact

Factor 2023: 3.3; Citation - Scopus: 83) [ISSN: 1010-6049 (Print) 1752-0762 (Online)] [<https://doi.org/10.1080/10106040508542343>]

2002

- **Saha AK**, Gupta RP & Arora MK (2002) *GIS –based Landslide Hazard Zonation in a part of the Himalayas – International Journal of Remote Sensing**, 23(2):357-369. (Impact Factor 2023: 3; Citation - Scopus: 320) [ISSN: 0143-1161 (Print) 1366-5901 (Online)] [<https://doi.org/10.1080/01431160010014260>]

2000

- Gupta RP & **Saha AK** (2000) *Mapping Debris Flows in the Himalayas – GIS@Development (Geospatial World)*, 4(12):26-27. [ISSN: 0971-9377 (Print) 2277-3134 (online)] [Appeared online on 01.09.2009; URL: <https://www.geospatialworld.net/article/mapping-debris-flows-in-the-himalayas/>]

1999

- Gupta RP, **Saha AK**, Arora MK & Kumar A (1999) *Landslide Hazard Zonation in a part of the Bhagirathi Valley, Garhwal Himalayas, Using Integrated Remote Sensing – GIS, Himalayan Geology**, 20(2):71-85. (Impact Factor 2022: 1.2, Citation - Scopus: 77) [ISSN: 0971-8966 (Print)] [http://www.himgeology.com/volume_abstract.php?abstract=514]

Details of Research Guidance

Degree	Title of Thesis	Year Awarded	Name of Student
PhD			
1.	Geographical Analysis of Tourism in Kashmir Region	2015	Mr. Salim Mir
2.	Drought Impact Assessment and Analysis of Drought Policy in Gujarat (Co-Supervisor: Dr. Chandrashekhar Bhuiyan)	2018	Ms. Nairwita Bandyopadhyay
3.	Rural Road Development Planning using Geo-informatics: A Case Study of Jorhat District, Assam	2019	Ms. Ankita Medhi
4.	Assessment of Landslide Risk and Disaster Management Strategies in Mandakini Valley, Uttarakhand	2022	Mr. Suman Das
5.	Geospatial Analysis of Some Mangrove Populations in the Coastal Region of West Bengal (Co-Supervisor: Dr. Anirban Roy)	2022	Mr. Biswajit Mondal
6.	Temporal and Spatial Variation of the Properties of Solar Radiation and its Relationship to Temperature Change in Iraq using GIS (Tentative)	In Progress	Mr. Arkan Abdul Jabbar (Registered on 17.02.2021) (Foreign Student)
7.	Multi-Hazard Assessment using Advanced Geospatial Techniques: A Case Study of Rishiganga River Basin, Chamoli District, Uttarakhand	In Progress	Mr. Sayantan Mandal Sayantan Mandal (Registered on 15.01.2022)
8.	Climate Variability and Rural Livelihood Transformation in Lower Gangetic West Bengal	In Progress	Mr. Gopal Chowdhury (Registered on 15.01.2022)
9.	Assessment of Erosional Processes and Flood Risk Modelling in the Ghagra River Basin, India (Co-Supervisor: Prof. S C Rai)	In Progress	Mr. Rahul Verma (Registered on 10.02.2023)
10.	A Detailed Analysis of Water Crisis in Western Plateau and Highlands of West Bengal, India	In Progress	Mr. Kundan Das (Registered on 11.02.2023)
11.	A Study of Sustainable Ecotourism Development in Indian Sundarbans (Co-Supervisor: Dr. Anirban Roy)	In Progress	Mr. Arup Baidya (Registered on 11.02.2023)
12.	A Geospatial Study on Inter-block Comparison of Urban Ecosystem Services in Lucknow District of Uttar Pradesh	In Progress	Ms. Ekta Singh Chauhan (Registered on 17.11.2023)
13.	Development and Planning for Resilient Physical Infrastructure: A Geospatial Study of the Peri-Urban Areas of Varanasi City, India	In Progress	Mr. Nilanjan Bal (Registered on 29.02.2024)
MPhil			
1.	GIS based multi-criteria analysis for landslide susceptibility and risk assessment in Chamba-Bharmor region in Himachal Pradesh	2009	Mr. Satyender Singh Kadian
2.	Assessment of water crises in Shillong town	2009	Mr. Karma Thiley
3.	Impact of Landuse/Landcover Change on Rhino	2011	Ms. Ankita Medhi

	Habitat in Kaziranga National Park, Assam		
4.	Drought Severity Analysis using Geospatial Data in Gujarat	2012	Ms. Nairwita Bandyopadhyay
5.	Traditional and Modern Agricultural System in India: Comparative Studies	2012	Ms. Ritu Jha
6.	Landslide Susceptibility and Risk Assessment along the Chamoli – Joshimath Road Section	2012	Mr. Parveen Singh
7.	Assessing the Quality of Life in North Delhi: Case Study of Delhi University North Campus and Surrounding Localities	2013	Mr. Rajesh Kumar
8.	Natural Resource Management in Santhal Pargana Region of Jharkhand	2013	Mrs. Babita Kisku
9.	Community-based Landslide Disaster Management: A Case Study in Chamoli District, Uttarakhand	2015	Mr. Suman Das
10.	Object-based Remote Sensing Image Analysis for Landslide Studies	2015	Ms. Ayanika Ray
11.	Women’s agency in a post-disaster space: a study of Kedarnath Tragedy (Co-Supervisor: Dr. Anindita Datta)	2016	Ms. Sakshi Naithani
12.	Mangrove Mapping and Change Detection using Object-based Image Analysis (OBIA) Approach	2017	Mr. Biswajit Mondal
13.	Flood Management in the Dwarakeshwar River Basin, West Bengal	2021	Mr. Kundan Das
14.	Political Economy and Sustainable Rural Livelihoods in the Bundelkhand Region of Madhya Pradesh (Co-Supervisor: Prof. S C Rai)	2023	Mr. Rohit Kumar Yadav
15.	Role of Religious Organizations in Environmental Conservation in Haridwar and Rishikesh	2024	Mr. Prashant Kumar
MA (Geography)			
1.	Estimating Urban Land Surface Temperature using Thermal Remote Sensing : A Case Study of Delhi	2008	Ms. Priyanka Verma
2.	Environmental Effect of Tehri Dam and Public Perception: A Case Study of Nakot and Chanti Village in Tehri Garhwal	2008	Mr. Rakesh Prasad
3.	Estimation of Soil Erosion in Rongni Chu Watershed of East Sikkim using GIS	2008	Ms. Rituparna Nath
4.	Impact of Tourism and Industrial Activity on Wetland Ecosystem - A Case Study in Vembanad Wetland, Kerala	2008	Mr. Sarun S
5.	Spatio-temporal Variation of Land Surface Temperature over Delhi (NCT): A Study using Thermal Infra-red Remote Sensing	2009	Ms. Rajlakshmi Devi
6.	Urban Transport System & Environmental Sustainability: A Case Study of Delhi Metro	2009	Mr. Parveen Singh

7.	Landslides and Landuse/ Landcover change in Chamoli Region, Uttarakhand	2009	Ms. Shreya Basu
8.	Drought Vulnerability Assessment in Gujarat	2009	Ms. Manisha Vashisht
9.	Flood Risk Assessment in Delhi	2009	Ms. Harpreet Kaur
10.	Landuse/Landcover Mapping and Change Detection: A Comparative Study of Per-pixel and Object Based Image Analysis Approaches	2012	Ms. Sharmistha Chatterjee
11.	GIS-based Facility Management System for DU North Campus	2012	Ms. Arifa Begum
12.	Assessment of Quality of Life of Students in and around DU North Campus	2012	Mr. Suman Das
13.	Landuse/Landcover Change Analysis in Santhal Parganas Division, Jharkhand	2013	Mr. Sumit Prasad
14.	Urban Greenspace: A comparative Study of Delhi and Kolkata	2013	Ms. Maansi Malik
15.	Vegetative Drought Assessment in Gujarat	2013	Ms. Sheena Tangri
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30.	Impact of Biodiversity Degradation on	2015	Ms. Soma Tanti

	Livelihood: A Case Study of Gosaba Block, Indian Sundarban		
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	Assessment in Sambhar Lake, Rajasthan, India		
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MA (Environmental Studies), University of Delhi			
1.	Drought Vulnerability in India	2008	Mr. Lalit Kumar Bansal
MSc (GIS & Remote Sensing), Amity University, Noida Campus			
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