



3rd International Conference
on

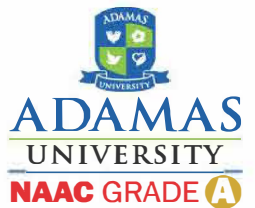
Geospatial Science and Technology for Earth Observation (GSTE0 2026)

*with special reference to
Wetland Restoration through Nature-Based Solutions*

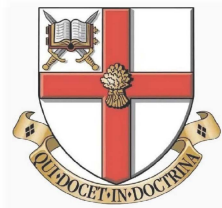
12–14 November 2026
(Hybrid Mode)



Organized By & In Collaboration With



Department of Geography
Adamas University



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United Kingdom



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Bruges, Belgium



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About Conference

The 3rd International Conference on Geospatial Science and Technology for Earth Observation (GSTEO 2026) aims to provide an interdisciplinary platform for researchers, academicians, scientists, industry professionals, and policymakers to exchange ideas and discuss recent developments in geospatial science and Earth observation technologies. In recent decades, geospatial technologies including Geographic Information Systems (GIS), Remote Sensing, Artificial Intelligence, and spatial data science have become essential tools for monitoring environmental change, managing natural resources, and supporting evidence-based decision-making.

GSTEO 2026 will focus on the growing global challenge of wetland degradation and the importance of nature-based solutions for ecosystem restoration. The conference will explore innovative geospatial techniques that can assist in understanding wetland dynamics, ecosystem services, climate resilience, and sustainable environmental planning.

The conference will feature Pre-conference symposium, Post-Conference field trip, keynote lectures, invited talks, technical sessions, and poster presentations covering emerging themes in geospatial science and environmental management.



About Adamas University

Adamas University: Adamas University is established under the Adamas University Act, 2014 (West Bengal Act IV of 2014) with a sprawling green campus extending over 120 acres, nestled in Barasat, Kolkata (13 km from Netaji Subhas Chandra Bose International Airport, Kolkata). With a focus on multidisciplinary research, education and a learning model that emphasises active learning, Adamas University (AU) aspires to be globally known for education, research and innovation at the intersection of disciplines. The University has many international initiatives collaborating with the industries and educational institutes to facilitate projects, research and student exchange programmes. The University has been established with the vision of providing quality education to students to help them become professionally competent as well as academically knowledgeable under the 10 Schools of Studies.

Department of Geography, Adamas University

The Department of Geography at Adamas University, established in 2015, has emerged as a dynamic academic centre dedicated to excellence in teaching, research, and geospatial innovation. The department offers a wide range of programmes including B.Sc. (Hons) in Geography, M.Sc. in Geography, M.Sc. in Geoinformatics, and Ph.D. in Geography, with a B.Sc. (Hons) in Geoinformatics from the 2026–27 academic year. It emphasizes experiential learning through field-based studies, hands-on training with advanced geospatial technologies, and interdisciplinary research addressing contemporary environmental and societal challenges. The department has also secured various research grants, including support from the DST-CORE initiative and international funding through collaborative projects with the University of Chester, UK. The department actively promotes academic engagement through conferences, workshops, alumni interactions, and collaborations with national and international institutions. Research initiatives span diverse themes such as climate resilience, geospatial innovation, wetland conservation, and sustainable development, complemented by field surveys and excursions that enhance students' practical skills. Through its vibrant academic environment, industry connections, and community-oriented initiatives, the Department of Geography continues to nurture skilled professionals and researchers equipped to address real-world spatial and environmental issues.



University of Chester

The University of Chester is a welcoming and historic institution that combines academic excellence with a strong sense of community. Founded in 1839, it is one of the oldest higher education establishments in the UK, offering a wide range of undergraduate and postgraduate programmes designed to support both personal and professional development. With a focus on student support, employability and high-quality teaching, the University of Chester provides an inspiring environment where students are encouraged to achieve their full potential.

The United Nations University

The United Nations University Institute on Comparative Regional Integration Studies (UNU-CRIS) is a research and training institute of the United Nations University. UNU is a global network of institutes and programmes engaged in research and capacity development to support the universal goals of the UN. It brings together leading scholars from around the world with a view to generate strong and innovative knowledge on how to tackle pressing global problems.



Call for Abstracts:

Authors are solicited to contribute to the conference by submitting abstracts that illustrate research results, projects, surveying work and industrial experience that describe significant advances in geospatial sciences. Abstracts are requested to be submitted to facilitate the oral presentations as well as poster presentations. Authors are requested to send abstract within 200 words and the full paper (optional).

Submission Guidelines

The abstracts should be in Times New Roman (Font Size 11) within one page. The title should be in bold with font size of 14 followed by author(s) name(s) in the next line, and affiliation in the subsequent line(s) with centre alignment along with the email address of the authors. The name of the presenting author should be underlined.

- **Title:** Times New Roman (14, Bold)
- **Authors:** Times New Roman (12)
- **Affiliation:** Times New Roman (11, Italics)
- **Body:** Times New Roman (11, Single Spacing)
- **Keywords:** Maximum 5
- **Page Size:** A4

Author Guidelines & Registration Instructions

- Abstracts must be submitted to gsteo2026.au@adamasuniversity.ac.in with the subject line 'Abstract Submission GSTE02026' or via the 'Submission' section of the conference website.
- Accepted abstracts will receive an Abstract ID via a reply email. Using this ID, authors must complete the registration through the form: <https://forms.gle/zVqaBdN6NReGg5Dv8> or via the 'Registration' section on the conference website.
- Each author must register individually in case of multiple authors. Certificates will be issued only to registered participants.
- The Technical Programme Committee will assign accepted papers to Oral or Poster sessions based on thematic grouping and author preference.
- Full-length articles will be considered for publication in Scopus-indexed journals or conference proceedings.
- Publication charges (if applicable) and the procedure for submitting full-length articles will be communicated separately.

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Primary Theme

- Wetland Restoration through Nature-Based Solutions

Sub-Themes

- Cartography and Spatial Visualization
- Geomorphological Studies
- Soil Science and Land Degradation
- Land Use Land Cover (LULC) Change Analysis
- Hydrological and Watershed Studies
- Geological and Geophysical Investigations
- Ecological and Biodiversity Studies
- Atmospheric and Climate Sciences
- Marine and Coastal Studies
- Environmental Monitoring and Sustainability
- Artificial Intelligence in Climate Change Research
- Disaster Risk Reduction and Management
- Geoparks, Geotourism, and Sustainability
- Resource and Environmental Management
- Urban and Regional Planning
- Geospatial Applications in Healthcare
- Geospatial Applications in Social Sciences
- Photogrammetry and 3D Mapping Technologies
- Drone Mapping and UAV-based Applications
- GeoAI and Artificial Intelligence in Geospatial Analysis
- Machine Learning Applications in Spatial Modelling and Prediction
- Geospatial Planning and Smart City Applications



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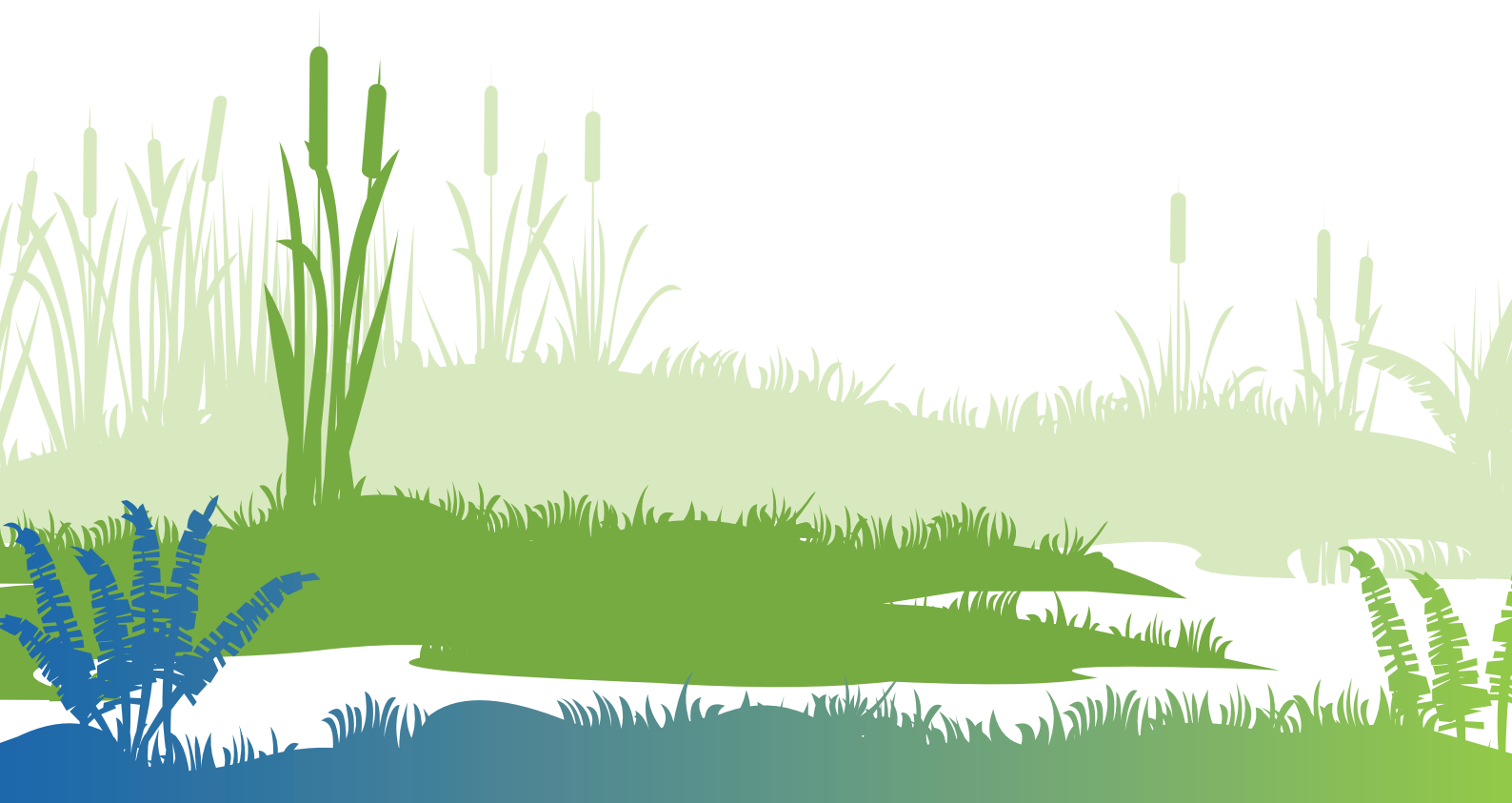
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Adamas University
- Mr. Sinchan Banerjee,
Research Scholar, Department of Geography,
Adamas University



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- Prof. Sunando Bandyopadhyay, Professor, Dept. of Geography, University of Calcutta
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- Dr. Gupinath Bhandari, Professor, Department of Civil Engineering, Jadavpur University
- Dr. Pratik Dash, Assistant Professor, Department of Geography, Khejuri College



Invited Speakers



Mr. Hussam Zuhair M. Al Turki
Senior Director, National Center for
Vegetation Cover Development &
Combating Desertification (NCVC),
Riyadh, Saudi Arabia



Dr. Namrata Bhattacharya-Mis
Associate Professor
University of Chester,
United Kingdom



Dr. Deepak Kumar
Research Scientist, Texas Tech University,
Lubbock, Texas, USA



Prof. Sunando Bandyopadhyay
University of Calcutta



Prof. Sunil Kumar De
North Eastern Hill University



Dr. Subhajit Sen, PhD
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Riyadh, Saudi Arabia



Prof. Premangshu Chakrabarty
Visva Bharati University,
WB, India



Dr. Nidhi Nagabhatla
Senior Research Fellow
United Nations University

Important Dates

Abstract Submission Deadline:
30th May, 2026

Abstract Acceptance Notification:
15th June 2026

Registration Opens:
15th June 2026

Registration Closes:
30th June 2026

Full Paper Submission (Optional) Deadline:
30th July 2026

Conference Registration

Registration Fees:

Category	Fee
Student	₹800
Research Scholar	₹1200
Academician / Scientist	₹1500
Industry Professional	₹2000

Sponsorship Opportunities:

Silver Sponsor < = INR 10,000/-

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Participants must send payment confirmation along with transaction details to the conference secretariat. Please send your transaction details to gsteo2026.au@adamasuniversity.ac.in for registration confirmation





Pre-Conference Workshop

Join our hands-on geospatial workshop designed for researchers, students, and professionals before the main conference event.

Date: 11 November 2026

Time: 11:00 AM – 4:00 PM

Venue: Adamas University Campus

Join a unique full-day workshop featuring two parallel, high-demand technical sessions designed for modern urban research and planning. Participants will choose one specialized track and gain hands-on experience through fieldwork and advanced geospatial tools.



Workshop Themes

Urban Wetland Management

Field Survey, Water Quality Assessment & Remote Sensing Applications 

- Wetland field survey & water sampling techniques
- Water quality assessment & environmental indicators
- Wetland boundary mapping & land use change analysis
- Vegetation indices & surface water analysis
- Urban encroachment & risk assessment
- GIS-based wetland management planning

Outcome: Integrate field-based observations with GIS & remote sensing for sustainable wetland management.

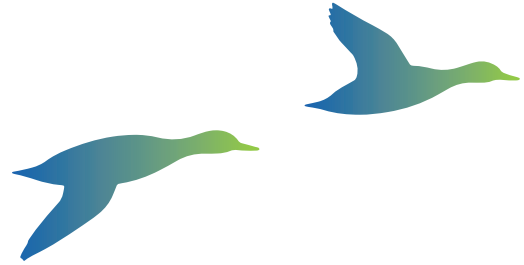
Urban Geospatial Analysis

LiDAR-Based 3D Mapping & AI-Driven Urban Prediction 

- LiDAR fundamentals & point cloud analysis
- DSM & DTM generation
- Building height extraction & 3D visualization
- Deep learning in geospatial analysis
- Land Use/Land Cover prediction
- Urban growth forecasting & change detection

Outcome: Apply 3D geospatial modelling and AI for smart urban planning and decision-making.





Software Platform

All sessions will be conducted using ESRI ArcGIS Pro (Professional Plus)

Exclusive Benefit:

15-day ArcGIS Pro Professional License for all participants

Why Join?

- Two specialized themes in one programme
- Field survey + advanced software training
- Exposure to GIS, Remote Sensing, LiDAR & AI
- Hands-on learning with real datasets
- Expert-led sessions
- Industry-relevant skills
- Certificate of Participation

Who Can Participate?

- UG / PG Students
- PhD Scholars
- Faculty Members
- GIS & Remote Sensing Professionals
- Urban Planners & Environmental Researchers
- Government & Industry Professionals



Limited Seats: Only 30 Participants

Registration on a first-come, first-served basis

Registration Deadline: **31 July, 2026**

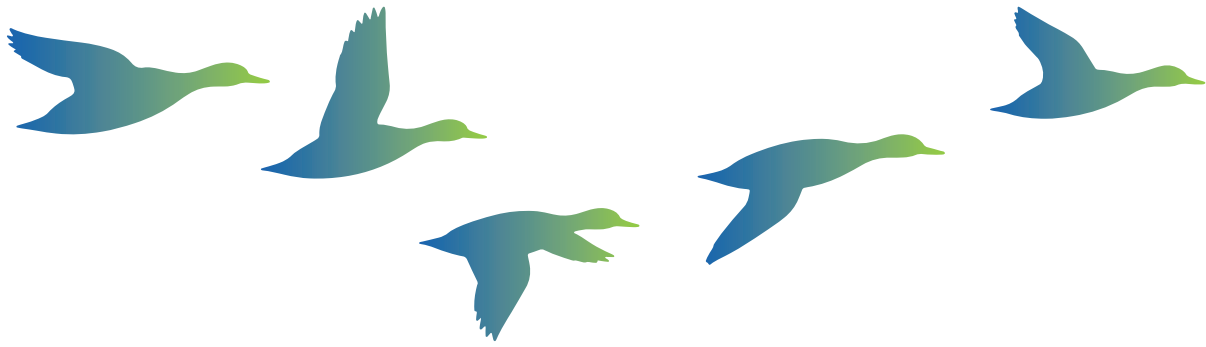


Register Early to Secure Your Seat

Know More:

<https://gsteo2026.adamasuniversity.ac.in/pre-symposium>





Post-Conference Field Trip of the Sundarbans – Exploring one of the largest mangrove forests on Earth

Step into the Sundarbans – the world’s largest contiguous mangrove forest and a UNESCO-recognized ecological hotspot – where land, river, and sea constantly reshape each other. This unique deltaic landscape, formed by the Ganga-Brahmaputra-Meghna system, is not only home to rich biodiversity but also a frontline region experiencing climate change, sea-level rise, and human-environment interactions.

This immersive field trip offers a rare opportunity to experience geospatial science in action—exploring tidal dynamics, fragile coastal ecosystems, and community resilience through hands-on data collection and real-world spatial analysis.

Key Details:

Duration: 15–17 November 2026 (2 Nights, 3 Days)

Cost: ₹4500 per head (Kolkata to Kolkata)

Overview:

This field-based learning experience is designed to provide participants with practical exposure to geospatial techniques in one of the world’s most unique and sensitive coastal environments. The programme integrates field observation, data collection, and applied spatial analysis.

Activities Included:

- Visit to Sundarbans Mangrove Forest
- Working with Tidal Bathymetric Data
- River Cross-Sectional Profiling
- Biomass and Carbon Stock Estimation
- Embankment Height Measurement
- Plantation and Ecosystem Restoration Activities



Contact Information

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 **Conference Email:** gsteo2026.au@adamasuniversity.ac.in

 **Website:** <https://gsteo2026.adamasuniversity.ac.in/>

 **Venue:** Adamas University, Barasat, Kolkata, India



Department of
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