

About the Workshop

The Two-Day Workshop on Hyperspectral and LiDAR Data Analysis is an intensive training program designed to build conceptual understanding and practical skills in advanced remote sensing techniques. The workshop introduces participants to the fundamentals of hyperspectral imaging and Light Detection and Ranging (LiDAR) technology, with a focus on data processing, analysis, and real-world applications.

Through expert lectures and hands-on sessions, participants will learn about hyperspectral data preprocessing, atmospheric correction, spectral signature analysis, image classification techniques, and LiDAR point cloud processing, including DEM/DSM generation and feature extraction. Emphasis will be placed on applications in environmental monitoring, forestry, urban mapping, disaster risk assessment, and climate studies.

The workshop is tailored for students, research scholars, academicians, and professionals in geospatial science, environmental science, and related disciplines who wish to strengthen their analytical capabilities and apply advanced geospatial technologies in research and practice.

Esteemed Speakers



Dr. Rama Rao Nidamanuri

Professor
Department of Earth and Space Sciences,
Indian Institute of Space Science and
Technology, Thiruvananthapuram



Dr. Ramiya A M

Associate Professor
Department of Earth and Space Sciences,
Indian Institute of Space Science and
Technology, Thiruvananthapuram

Participation Criteria

- Postgraduate students and Research scholars in Remote Sensing, GIS, Environmental Science, and related fields
 - Faculty members and Professionals from government, research institutions, and geospatial industries
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- All registered participants who maintain a minimum of 80% attendance will be awarded a Certificate of Participation.
 - Participants securing 75% or above in the evaluation conducted at the end of the workshop will be awarded an Appreciation Certificate.

Registration Details

Category	Registration Fee
Offline Participants	₹1000
Online Participants	₹500

**Last Date of Registration:
20th March, 2026**



**Scan for Offline Participation
[Non-BIT]**

*Limited Seats for Offline
Participation [except BIT
Students]

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Online Participants & BITians](#)

***Registration includes Workshop kit, course material
and certification. Paid accommodation is available,
subject to availability.**



Workshop
on

HYPERSPECTRAL AND LIDAR DATA ANALYSIS

MARCH 24 - 25, 2026

Mode: Hybrid

Organized By:

**Department of Remote Sensing and
Geoinformatics with GeoPix Club
Birla Institute of Technology, Mesra, Ranchi**

Venue:

**Department of Remote Sensing and Geoinformatics,
Birla Institute of Technology, Mesra, Ranchi**



About the Institute

Birla Institute of Technology (BIT), Mesra was established in 1955 at Mesra, Ranchi, Jharkhand by the eminent philanthropist and industrialist Shri B. M. Birla. The institute was accorded the status of a Deemed-to-be University by the University Grants Commission (UGC) in 1986 under Section 3 of the UGC Act, 1956. Over the decades, BIT Mesra has emerged as one of India's leading self-financed engineering institutions, offering a broad spectrum of programs spanning traditional engineering disciplines and cutting edge technological domains, firmly grounded in the fundamental sciences and oriented toward contemporary innovation and application. With a vibrant academic community of over 10,000 students, BIT Mesra today enjoys a strong global presence. In addition to its undergraduate and postgraduate programs, the institute currently supports more than 250 registered doctoral scholars engaged in advanced research. All academic programs are accredited by the National Assessment and Accreditation Council (NAAC) and the National Board of Accreditation (NBA), established by the UGC and AICTE, respectively. BIT Mesra maintains active academic and research collaborations with universities in the United States, the United Kingdom, and Canada, and is a participating member of the EAGER NETWIC Project under the Asia-Link Programme of the European Commission.

About the Department

The Department of Remote Sensing and Geoinformatics at is strongly aligned with contemporary scientific and technological advancements in geospatial science, maintaining the flexibility to continuously update its academic programmes in response to emerging national and global requirements. A key focus of the department's academic and research activities is the application of advanced remote sensing, GIS, GNSS, and spatial modelling techniques to address complex environmental and societal challenges.

The department has undertaken several ongoing and completed research projects employing satellite data analytics, geospatial artificial intelligence, UAV-based mapping, and spatial decision-support systems for applications in natural resource assessment, land use and land cover analysis, climate studies, disaster risk reduction, urban planning, and environmental monitoring.

To enhance research excellence and collaboration, the department actively partners with national research organizations and government agencies, contributing to multidisciplinary projects and capacity-building initiatives in the geospatial domain.



Patron Prof. Indranil Manna

Vice Chancellor,
BIT Mesra, Ranchi

Organizing Committee

Convenor	Dr. Akhouri Pramod Krishna
Coordinator	Dr. (Mrs.) Mili Ghosh Nee Lala
Co-Coordiators	Dr. (Mrs.) Richa Sharma Dr. Swagata Payra
Faculty Members	Dr. C. Jeganathan Dr. Nilanchal Patel Dr. V.S. Rathore Dr. Kirti Abhishek Mr. Nitish Kumar Sinha
Student Members	Akash Roy Prashant Parasar Nikita Roy Mukherjee Shubham Singh Farhin Tabassum Abhishek Ojha Anuva Chowdhury Ashmita Jessie Sen Sibalika Kundu Subha Das Mala Sinha Preeti Sardar Roshan Kumar Misra Sneha Kaur Abhejit Kumar Kankana Ghosh Tamonash Ghosh Subhosree Goswami B.K. Vimal Nitish Kumar Mimansa Sinha

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