

About NESAC

North Eastern Space Applications Centre (NESAC) is an autonomous organisation under the Department of Space (DOS), Government of India. The centre helps in augmenting the developmental process in North Eastern region by providing the advanced space technology inputs. The center boasts advanced facilities for operational services and research across domains such as Remote Sensing (RS) & Geographical Information System (GIS), Satellite communication, and Space & Atmospheric Science. NESAC is also instrumental in providing vital support for Disaster Management and conducts capacity building and outreach initiatives within the North Eastern Region (NER).

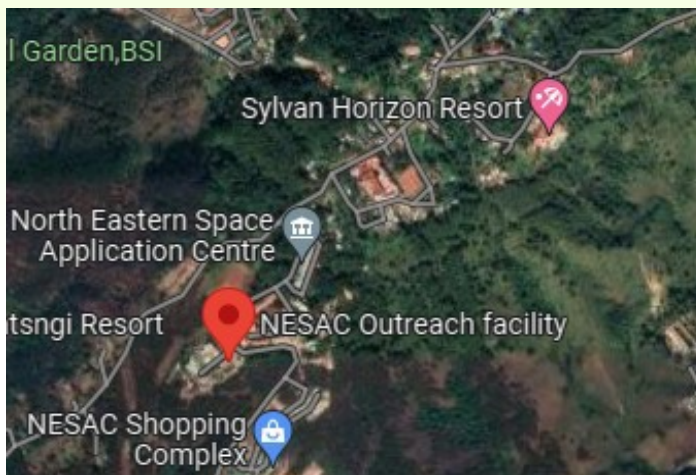


Course Venue

Outreach Facility, NESAC: NESAC has established outreach facility with the aid of Indian Space Research Organisation (ISRO) to undertake wide range of capacity building activities in the North Eastern Region. The facility has state of the art smart classrooms, hostels and labs equipped with high-end workstations and software for geospatial applications.

How to Reach

NESAC is located at Umiam (Barapani), Ri Bhoi, Meghalaya along Guwahati-Shillong Highway. The nearest railway station is Guwahati, Assam about 80 km from NESAC. The nearest airports are Umroi (about 9 km) and Guwahati about 100 km from NESAC.



For further Information, please contact



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Two weeks course on

Remote Sensing and GIS Applications in Forestry & Ecology

September 7th - 18th, 2026



Organised by

North Eastern Space Applications Centre,
Department of Space,
Government of India,
Umiam, Meghalaya - 793103
www.nesac.gov.in



Details of the Course

Title : Remote sensing and GIS applications in Forestry & Ecology

Duration: 2 Weeks

Period : September 7th - 18th, 2026

Course Structure

The course will mainly emphasize on understanding fundamental concepts, applications, and the effective utilization of geospatial technology for proficient management within the domains of forestry and ecology. Participants will engage in a series of informative lectures and hands-on practical sessions to gain insights into the fundamental operations of geospatial tools within open-source software.

Furthermore, the course incorporates a one-day field excursion to nearby areas, facilitating hands-on experience in satellite image interpretation and the collection of ground truth data. Alongside informative tutorials and lectures, participants will be involved in mini project work to further enhance and apply the skills they have acquired during the course, fostering a deeper understanding of the subject matter.



Curriculum

- Fundamentals of Remote Sensing
- Remote sensing platform and sensors
- Fundamentals of GIS and GPS
- Digital Image Processing
- Advanced GIS applications
- Visual image interpretation and digital classification
- Forest type and density Mapping
- Biomass assessment
- Forest and climate change
- Habitat suitability analysis
- Forest change detection
- Forest fire monitoring
- Growing stock assessment
- Hyperspectral, Microwave, LiDAR and UAV applications in forestry

Who Should Apply

This comprehensive course is tailored for Indian nationals seeking to enhance their expertise in integrating remote sensing and GIS applications within the realm of forestry and ecology. The primary objective of this program is to provide fundamental operational proficiency in the geospatial application, catering to professionals, researchers, students (M.Sc./M.Tech.), Govt. officials and faculty engaged in forestry and its associated disciplines. Join us to acquire essential skills that will empower you in effectively harnessing geospatial tools for advancing your endeavors in these fields.

Course Fee

The course fee is Rs 9500/- (Rupees nine thousand and five hundred only) for each participant, which includes registration kit, tuition fee, course materials, food during training hours & field visit.

Registration

A non-refundable fee of Rs.500/- is payable during registration and adjustable against the course fee (Account details: A/C Name: North Eastern Space Applications Centre; A/C No: 10228761316; IFSC: SBIN0002010; State Bank of India, Umiam Branch. Government-sponsored / nominated participants are exempted for this registration fee. Shortlisting of participants will be communicated via email.

Note: Accommodation will be arranged in the NESAC Outreach Hostel on twin sharing/single occupancy basis. The daily charges are:

Daily lodging
₹ 240 / bed

Breakfast
₹ 60

Dinner
₹ 75

How to Apply

All registrations are via the following online portal:

<https://nesac.gov.in/outreach/>

*Preference will be given to employees of government departments and working professionals and first come first serve basis for other applicants.

Important Details

Maximum number of seats	: 30
Opening of registration	: 04/07/2026
Closing of registration	: 16/08/2026
Intimation of shortlisted candidates	: 18/08/2026
Last date for course fee payment	: 01/09/2026

