

About NESAC

North Eastern Space Applications Centre (NESAC) is an autonomous organization under the Department of Space (DOS), Government of India, located at Umiam, Ri Bhoi, Meghalaya along the Guwahati-Shillong National Highway-6. The Centre helps in augmenting the developmental process in North Eastern Region (NER) by providing the advanced space technology inputs. The centre is well equipped with state of the art facilities for providing operational services and carrying out research in the areas of Remote Sensing (RS) and Geographical Information System (GIS), Satellite Communication and Space & Atmospheric Science. The centre also provides inputs for Disaster Management and carry out capacity building and outreach programmes in the NER.

NESAC Outreach Programme

NESAC has established a state of the art outreach facility to undertake wide range of capacity building programs in the region. NESAC has been conducting two weeks courses on Basic of RS & GIS and Advanced course in UAV Remote Sensing for the last 5 years. Many tailor-made courses specific to the user departments such as NDMA, SDMA, ONGC, DMR, Planning, Agriculture, Forestry etc., have also been conducted. The outreach facility is equipped with smart classrooms with audio visual recordings and labs with 150 thin clients backed by high-performing servers with necessary software. A number of students from different parts of the country have been carrying out their Ph.D./M.Tech./B.Tech./M.Sc. dissertation work at NESAC. So far more than 1500 participants have been trained at NESAC in various aspects of Geospatial Applications.



Outreach Block



Outreach Hostel



Smart Classroom



Outreach Conference Hall

NESAC's Activities in Agriculture

NESAC has been conducting fascinating research on utilization of geospatial technology in a wide range of agricultural applications viz., estimating crop acreage and production, analyzing cropping systems, assessing crop conditions and damages. Furthermore, NESAC is dedicated to mapping of soil resources & fertility, investigating the suitability of sites for expansion of agriculture, horticulture and sericulture. The centre also pioneered in UAV remote sensing in the region and has been extending its support to other allied sectors like animal husbandry & veterinary services, fisheries etc. By leveraging space technology, NESAC empowers these fields with innovative solutions and tools that improve productivity and sustainability.

The previous courses conducted by NESAC gave an excellent exposure of RS & GIS applications in agriculture and allied areas to the participants and provided them necessary boost to delve into the geospatial domain.



For further information on the course, please contact:

Dr. Bijoy Krishna Handique

Course Director

Head, Agriculture and Soil Division (ASD)

Remote Sensing Applications Group (RSAG)

Email : bk.handique@nesac.gov.in / bkhandique@gmail.com

Tel: + 91 364 2308712 / 9436117470

Dr. Pradesh Jena

Course Coordinator

Scientist/Engineer-SD, ASD, RSAG

Email : pradesh.jena@nesac.gov.in / pradeshjena@gmail.com

Tel: + 91 364 2308726 / 9658608368

Applications of Remote Sensing & GIS in Agriculture and allied areas

August 19-30, 2024



Organized by



North Eastern Space Applications Centre

Department of Space,

Government of India

Umiam-793103, Meghalaya

About the Course

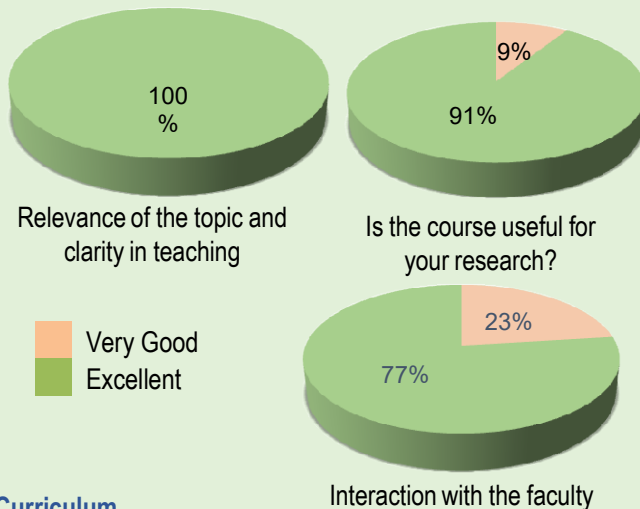
Course Title : Applications of Remote Sensing & GIS in Agriculture and allied areas

Course Duration : Two weeks

Period : August 19-30, 2024

It is a compact two weeks experience on basics of remote sensing and GIS applications in agriculture and allied areas. This course is designed to provide a comprehensive knowledge on RS & GIS and its role in natural resources management. Further focus of this course is to impart basic understanding of the concepts, applications and the utilization of geospatial technology for agricultural management in near real time scenario.

Feedback from Participants of Previous Course



Curriculum

- ◆ Fundamentals of remote sensing
- ◆ Common remote sensing platforms and sensors
- ◆ Fundamentals of GIS and GPS
- ◆ Digital image processing
- ◆ Advanced GIS applications
- ◆ Visual image interpretation and digital image classification
- ◆ Crop acreage estimation and cropping system analysis
- ◆ Land and soil resources assessment
- ◆ Crop stress detection and damage assessment
- ◆ Site suitability analysis for expansion of crops
- ◆ Applications of geospatial technology in allied agricultural activities like Animal Husbandry, Fisheries, Sericulture etc.
- ◆ Introduction to mobile applications and services
- ◆ UAV remote sensing in agricultural applications



Trainees will be guided during hands on session and to familiarize with the available tools in the open source GIS software. In addition to tutorial and lectures, trainees are encouraged to work extra hours during off time and take up their own independent study. Exposures will also be provided on data browsing, ordering, downloading from 'Bhoonidhi' portal of NRSC.



Target Participants

The course is aimed at Govt. Officers, Faculties from Academic Institutions, Researchers, Entrepreneurs, Progressive Farmers and Students with field experience who will be benefited from this course with the additional knowledge of using geospatial technology as a tool for planning & management in their respective domain.



Registration

Participants are suggested to register for the course by visiting our site at <https://nesac.gov.in/outreach/> latest by July 30, 2024 to book a seat as number of seats are limited.

Course Fee

The course fee of Rs. 9500/- (Rupees nine thousand and five hundred only) will be charged from each participant, which includes registration kit, tuition fee, course materials and food (morning tea, lunch and evening tea) during the training hours. Account details will be communicated to the shortlisted participants for payment of course fee.

Accommodation

Accommodation will be arranged in the NESAC Outreach Hostel on twin sharing/single occupancy basis. The participants will have to pay daily lodging charges of ₹ 240 per bed. Breakfast and dinner will be available at the cost of ₹ 50 and ₹ 75 respectively.

Important Dates

Tentative number of seats	: 30
Opening of registration	: 26 June 2024
Closing of registration	: 30 July 2024
Intimation of selected candidates	: 31 July 2024
Last date for payment	: 15 August 2024
Release of final list of participants	: 16 August 2024

