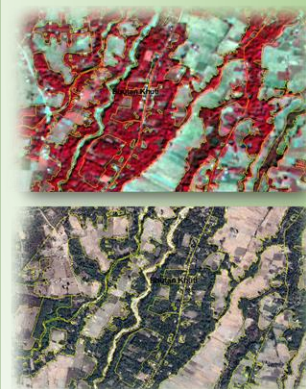
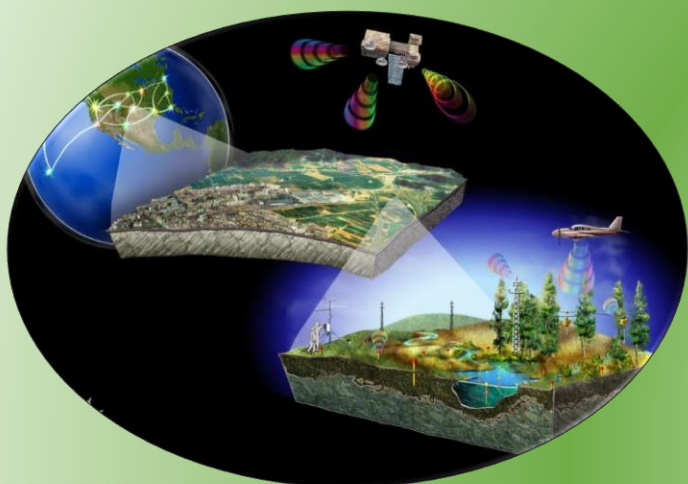


# Online training programme on “Remote Sensing & GIS: Technologies & Applications ”



Organised by



**Indian Council of Agricultural Research  
(ICAR) - National Bureau of Soil Survey and  
Land Use Planning, Regional Centre, Jorhat,  
Assam, India**



## About the Centre

ICAR-NBSS&LUP, Jorhat is a Regional Centre of ICAR–NBSS&LUP, Nagpur. Our mission to conduct and promote research in the National Agriculture Research System in the areas of Soil Survey, Pedology, Soil Classification, Remote Sensing, Geographic Information System, Land Evaluation and Land Use Planning. The operational jurisdiction of the Centre is in 8 states of North-Eastern region comprising Arunachal Pradesh, Assam, Manipur, Meghalaya, Mizoram, Nagaland, Sikkim and Tripura. This Regional Centre is entrusted for inventorization of soil and land resources of this region. Its activities are grouped into three categories viz. research, human resource development and capacity building of farmers through farmers-scientist interaction.



## About the Course

It is an introductory course to Remote sensing and GIS and its applications in basic and advanced geoscience research. It focusses on understanding of Remote sensing techniques (using both earth observation and Navigational satellites data) to study recent advances in Remote sensing and GIS technology and their application.

This course is a compact 10 days experience on basics of remote sensing and GIS technology and their applications. The main focus of this course is to impart basic working knowledge in the field of geospatial domain for professionals related to Agriculture, soil conservation, urban planning, water resources and allied areas and Android based Smart Phone GIS Application for real time field geo-database management.

## Who can apply?

Faculty members/Scientists/Engineers/ Officers and scientific/technical staff working in the Central/ State Govt. organisations/ institutions working in related areas with minimum graduate level qualification may apply. Students , SRFs, JRFs or RAs who have completed M.tech or Master's degree in Science, Geology, Geography or equivalent may apply for the course.

## Certificate

All successful candidates will be provided with certificates.

## Course Fee

The course fee is Rs 2,000/- (Rupees Two thousand only). It is a first-come-first basis and the first 25 candidates will be selected for the training programme. The amount should be paid online using the following details:

**Bank Name: State Bank of India**  
**A/c No: 10253819108**  
**IFSC Code: SBIN0002003**

## Course Registration

All the participants have to register online through registration page available on the above web page (Google form). Please fill up the online application form in this website (<https://forms.gle/5MQfxtczUZgSrcfM7>).

The last date to apply for the course is **30.09.2020**

## Details of the course

**Title : Remote Sensing & GIS:  
Technology & Applications**

**Duration : 10 days (Two and half hours everyday)**

**Period : 05 October-16 October, 2020(excluding holidays)**

## Program Reception

Programme can be received through Internet connectivity of 2 Mbps or more. Following hardware and software set-up is required at user end:

### Hardware Requirements at User End:

#### Option 1:

- Computer/Laptop (Windows OS)
- Good quality web camera
- Headphone with Microphone
- Speaker

#### Option 2:

- Smart Mobile phone with Internet connectivity and screen mirroring feature with Large display screen.

### Software and Internet Requirements:

Online live access through cloud meeting to be intimated in due course of time. Join from a PC, Mac, iPad, iPhone or Android device.

## Course Content

### Remote Sensing

- Basic concepts and Principles of Remote Sensing
- Earth Observation Sensors & Platforms
- Spectral Signatures Of Different Land Cover Features & Visual Image Interpretation
- Practical on satellite Image downloading, Processing, Rectification and Classification.

### GIS & GPS

- Basic concepts of GIS and GPS, functional requirements, components, recent trends and applications.
- RS and GIS Applications in Agriculture & Soils
- RS and GIS Applications in Forest Resources & Ecosystem Analysis
- RS and GIS Applications in Urban planning & Regional Studies
- RS and GIS Applications in Water Resources
- Practical on GIS Analysis: Terrain analysis, landform and LULC mapping, Determination of spectral indices, Smart phone and GPS applications.

## Course Co-ordinators

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