

# IIRS Outreach Programme

The IIRS outreach programme, which was started in 2007 with 12 universities/ institutions has now grown substantially to 3000+ network institutes. The beneficiaries of the programme may include:

- Central/State/Private Universities & Academic Institutions
- Central & State Government Departments
- Forest Resource Professionals
- State Forest Departments/Forest Training Academies
- Research Institutes
- Geospatial Industries
- NGOs

## Feedback Mechanism

IIRS has conducted eleven workshops in 2007, 2009, 2010, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021 and 2022 to take feedback from participating institutions to improve the quality of future courses.



Feedback session during IIRS User Interaction Meet (UIM)-2020

## Awards

IIRS has received national awards for excellence in training for outreach and e-learning programme during 1st National Symposium on Excellence in Training conducted during April 11-12, 2015 in New Delhi by Department of Personnel & Training (DoPT), Govt. of India in collaboration with United Nations Development Programme (UNDP).



# About IIRS

Indian Institute of Remote Sensing (IIRS) under Indian Space Research Organisation (ISRO), Department of Space, Govt. of India is a premier Training and Educational Institute set up for developing trained professionals in the field of Remote Sensing, Geoinformatics and GNSS Technology for Natural Resources, Environmental and Disaster Management. Formerly known as Indian Photo-interpretation Institute (IPI), founded in 1966, the Institute boasts to be the first of its kind in entire South-East Asia. While nurturing its primary endeavour to build capacity among the user community by training mid-career professionals, the Institute has enhanced its capability and evolved many training and education programmes that are tuned to meet the requirements of various target groups, ranging from fresh graduates to policy makers including academia.

IIRS also conducts e-learning programme on Remote Sensing and Geoinformation Science (<http://elearning.iirs.gov.in>).

## Contact Details

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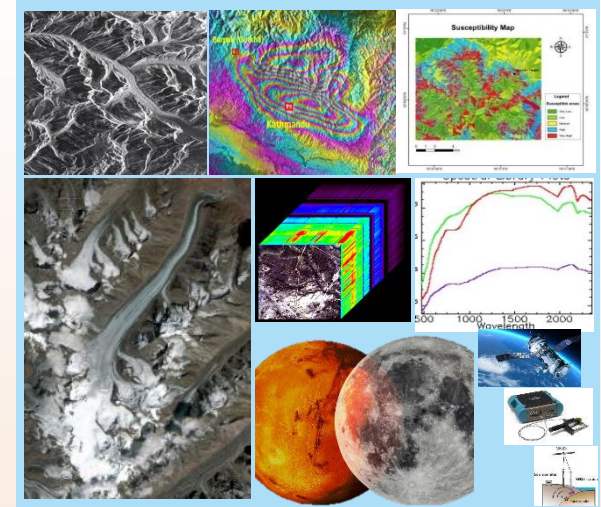
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# 114th IIRS Outreach Programme



## Advances in Remote Sensing Techniques for Geological Applications

**March 13-24, 2023**



**Organised by**

**Indian Institute of Remote Sensing**  
Indian Space Research Organisation  
Department of Space, Govt. of India  
Dehradun

[www.iirs.gov.in](http://www.iirs.gov.in)

## About the Course

Advances in remote sensing technology, as such, has reliably brought revolutionary changes specially in the field of mapping, monitoring, characterization, change detection of natural resources in a big way. Hence, its applications in geological problems are nowadays not restrained only for inaccessible area but onto almost all evolving branches of earth sciences giving rise to strategic ways to understand the process, problems, outreach possible outcomes and remedial measures, as applicable. Recent advances in the field of optical, thermal, microwave and hyperspectral range of remote sensing caters to niche areas including lithological, structural, geochemical and geodesy showcasing ability to provide critical aid in mineral exploration, crystal deformations, geohazards like landslides and earthquakes, land subsidence and deformation studies, planetary exploration etc.

We invite you to attend this training program on **Advances in Remote Sensing Techniques for Geological Applications**. The course is scheduled from March 13-24, 2023.

## Course Structure

The course will cover following topics:

Overview of RS and GIS applications in geosciences including role of optical, thermal, microwave, hyperspectral RS in geological sciences. Subsidence, surface deformation and other geological applications, glacial dynamics /cryospheric studies, geo-environmental applications, mineral targeting and exploration, landslide initiation process mapping and modeling, integrated approach involving GNSS, Geodesy and geophysics in geosciences, Planetary exploration with special emphasis on ISRO missions using advance remote sensing techniques will be catered to.

## Target Participants

The candidates who want to participate in should be a postgraduate or final year postgraduate student of Geosciences. Scientific Staff of Central/State Government/Faculty/researchers at university/institutions are also eligible to apply for this course. Applications of participants have to be duly sponsored by university/institute and forwarded through coordinators from respective centres. Users receiving programmes under CEC-UGC/ CIET networks can also participate. Institutions on high speed National Knowledge Network (NKN).

## Course Pre-requisite

- Familiarisation with Basics of Remote Sensing and GIS

## Course Study Material

Course study materials like lecture slides, video recorded lectures, open source software & handouts of demonstrations, etc. will be made available through e-class. Video lectures will also be uploaded on e-class (<https://www.eclass.iirs.gov.in/login>).

## Course Fee

There is no course fee for attending this programme.

## Course Registration

- Course updates and other details will be available on URL- <http://www.iirs.gov.in/Edusat-News/>
- To participate in this programme the interested organizations/ universities/ departments/ Institutes has to identify a coordinator at their end. The identified coordinator will register online his/her Institute as nodal center in IIRS website.
- All the participants have to register online through registration page by selecting his/her organization as nodal center.

## Course Funding & Technical Support

The programme is sponsored by Indian Space Research Organisation, Department of Space, Government of India.

## Programme Reception

Programme can be received through e-class platform of IIRS-ISRO using internet connectivity. No specific hardware/software required. However, it is recommended good internet connectivity at user end. To run the programme in class room, following hardware will be required:

- Desktop computer with web camera microphone and output speakers or laptop with microphone camera and output speaker.
- Large display screen/projector/TV.

## Important links

Courses updates and other details will be available on URL – <https://www.iirs.gov.in/EDUSAT-News>

To participate in this programme the interested organisations/universities/departments/institutes have to identify coordinator at their end. The identified coordinator will register online his/her institute as nodal centre in IIRS website (<https://elearning.iirs.gov.in/edusatregistration/coordinator>)

All the participants have to register online through registration page by selecting his/her organization as nodal centre. <https://elearning.iirs.gov.in/edusatregistration/student>

## Award of Certificate

Working Professionals and Students: All participants will be awarded a certificate of participation based on 70% attendance during the online classes.

**There are limited number of seats. Registration will be done on first come first serve basis**