

IIRS Outreach Programme

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

- Central/State/Private Universities & Academic Institutions;
- Central & State Disaster Management Centers;
- State Remote Sensing Departments;
- Research Institutes;
- Earthquake engineering/ geotechnical Industries;
- NGOs.

Feedback Mechanism

IIRS has conducted workshops and sessions during IIRS User Interaction Meet to take feedback from participating institutions to improve the quality of future courses.



IIRS Outreach programme feedback session during IIRS User Interaction Meet (IAM)-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 (<https://elearning.iirs.gov.in>).

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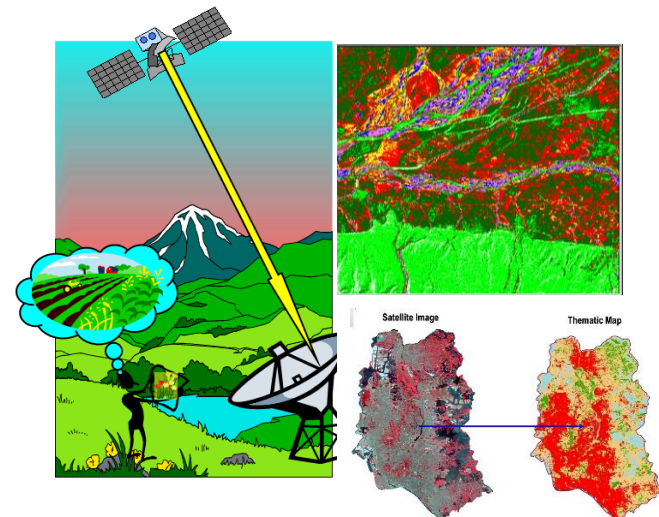
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 **E-CLASS**
ELECTRONIC COLLABORATIVE LEARNING
AND KNOWLEDGE SHARING SYSTEM

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Sixtieth IIRS Outreach Programme



Special Course on Basic Principles of Remote Sensing Technology

April 13- 25, 2020



Organised by

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

www.iirs.gov.in

Stay Home, Stay Safe

About the Course

The COVID-19 pandemic is a global phenomenon that has affected all sectors in every country in the world, including higher education. Universities and colleges were forced to abruptly close and ongoing teaching of various courses was abandoned midstream. As a result, management of institutions of higher learning with thousands of stranded students have been left wondering how to fill the gap. In the current scenario IIRS has responded to the current crises by tapping into its existing distance learning program and launched a special course on Basic Principles of Remote Sensing, Technology.

Target Participants

- Student of Undergraduate and Postgraduate courses (any year);
- Working Professionals of Central/ State Government Ministries/ Departments;
- Faculty / Researchers at university / Institutions.

The course participants should be approved by their university/ institution coordinators. Individual login credentials will be provided to the participants .

The special course will be available to participants who may register and attend the course from home. The attendance in the lecture sessions will be recorded automatically by the system.

Course Contents

The use of Remote Sensing, Geographical Information System, Global Navigation Satellite System and associated geospatial technologies is increasing rapidly, creating an urgent demand for trained manpower. The course will deal with the following topics:

- Basic Principles of Remote Sensing, Earth Observation Sensors and Platforms, Spectral Signature of different land cover features, Image interpretation,, Digital Image Processing: Basic Concepts of Rectification and Registration, Enhancement, Classification etc.
- Introduction to GPS and GNSS, receivers, processing methods, errors and accuracy;
- Introduction to GIS Technology.

Course Study Material

Course study materials like lecture slides, video recorded lectures, etc. will be made available through IIRS E-CLASS platform and ftp link.

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/>. All the participants has to register online through registration page available on above web page.

During the registration, the participant has to select his/her Institute/office name as a nodal center from the list available in registration page. If the name of their Institute is not available in the list then the participant can register by selecting Indian Institute of Remote Sensing as Nodal Center.

Award of Certificate

Working Professionals: Based on 70% attendance and submission of assignments.

Students: Based on 70% attendance and online examination.

Programme Reception

Programme can be received through Internet connectivity of 2Mbps or better using IIRS E-CLASS platform. Following hardware and software set-up is required at user end:

Hardware Requirements :

- High-end Computer/Laptop (Windows OS);
- Good quality web camera;
- Headphone with Microphone;
- Speakers;

Software and Internet Requirements

- Online live lecture through:
<https://eclass.iirs.gov.in/login> or
<https://elearning.iirs.gov.in/>

Connectivity & Other configurations:

- NKN or any other high speed internet facility (preferably without firewall, with minimum of 2 Mbps bandwidth)
- Network requirements: Port 80 and RTMP (port 1935) protocol should be unblocked from user's computer and Firewall.