

Information Brochure

IIRS Outreach Programme

Geospatial Technology and its Applications

Organised by

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

<https://elearning.iirs.gov.in>



Background

Geospatial Technology is an emerging field of study that enables us to acquire georeferenced data and use it for analysis, modeling, simulations and visualization. Remote sensing imageries and derived products are a direct input for geospatial data generation, monitoring resources and providing citizen services. As of now, geospatial technology has made inroads into various sectors in India both in the public and private domains. The major sectors using this technology are agriculture, telecommunication, oil & gas, environmental management, forestry, public safety, infrastructure, and logistics. The current plans and initiatives call for geospatial capabilities that are larger than what the geospatial industry can currently provide. Hence there is an urgent requirement for trained human resources in the area of geospatial technology and its applications.

About IIRS

Indian Institute of Remote Sensing (IIRS), a unit under Indian Space Research Organization (ISRO), Department of Space, Government 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 endeavor 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 user groups in the society, ranging from fresh graduates to policy makers including academia.

The training and education programmes at IIRS includes the short duration customized courses, PG Diploma, Master's Degree (M.Tech and M.Sc.) in various disciplines. IIRS also conducts distance learning courses for mass scale capacity building under IIRS Outreach Programme.

IIRS Outreach Programme

IIRS Outreach Programme focusses on strengthening the Academia and User Segments in Space Technology & Its Applications using Online Learning Platforms. Indian Institute of Remote Sensing (IIRS)/ ISRO has started its Distance Learning Program in the year 2007. The distance learning program was started with the basic objective of creating awareness among students and working professionals in the areas of fundamentals and advanced concepts of Remote Sensing technology and its applications. Later, the programme was also extended to meet the training and capacity building requirements of user departments in central and state government using online learning platforms. Till December 2021, IIRS has successfully conducted 125 online courses in Live & Interactive mode and also launched five online courses under e-learning/MOOC initiatives. Currently IIRS distance learning programme is being conducted through following two modes:

1. Live and Interactive classroom sessions (<https://eclass.iirs.gov.in>)
2. E-learning/MOOC based online courses (<https://elearning.iirs.gov.in>)

Live and Interactive classroom

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 human resources. The live and interactive mode of distance learning is enabled through indigenously developed online learning platform of IIRS i.e. E-Class portal. The programs are available without any cost to the user. The live and interactive sessions will be conducted by experts from IIRS-ISRO and other knowledge Institutions. IIRS has successfully conducted **125** such courses so far with participation of over **445072+ participants** from **3007+** academic institutions, government departments and industry.

Course Announcement

All the online courses of IIRS are announced at- <https://www.iirs.gov.in/EDUSAT-News>. The course guidelines are available at - https://eclass.iirs.gov.in/assets/guidelines_for_participants.pdf

How to Join?

A. Become IIRS Nodal Centre (INC):

IIRS-ISRO online courses are an innovative approach for mass scale training and capacity building on geospatial technology and its applications. IIRS has setup a network of academic and professional Institutions in India under its outreach programme. Till December 2021, total 3007+ Institutions are networked under IIRS Outreach Network (ION) where each network Institute is known as “IIRS Nodal Centre (INC)”. To become Nodal Centre for conducting online courses of IIRS at Institute/Organization level, the Interested Institute has to identify one senior officer or faculty member as coordinator. The identified coordinator has to register themselves in IIRS website at- <https://elearning.iirs.gov.in/edusatregistration/coordinator>. The Instructions re also available at - <https://elearning.iirs.gov.in/edusatregistration/coordinatorInstructions>.

There is no registration fee to become IIRS Nodal Centre.

B. Registration of the participants:

The participant can register for the course under any identified INC. The coordinator of selected INC will review the participant’s registration and approve for the course. All the approved participants will receive login credentials for IIRS E-CLASS platform for participating in the course. The course guidelines for the participants is hosted at- https://eclass.iirs.gov.in/assets/guidelines_for_participants.pdf

If the Institute/Organization of any participant is not listed in course registration page of IIRS online courses then the participant has to approach his/her Institute to become IIRS Nodal Centre. The participant can also register as individual learner for the course. In such cases, the participant will be self-responsible for his/her course management and name of his/her Institute/Organization will not be printed in the course certificate.

Course Delivery & Programme Reception

The Live & Interactive courses will be delivered through IIRS-ISRO active learning platform E-CLASS (<https://eclass.iirs.gov.in>). E-CLASS platform provides reception of live & interactive sessions, download of study materials, access to offline sessions, auto-attendance recording system, notice board, self-assessment and examination system, feedback system etc.

No specific hardware /software required. However it is recommended good internet connectivity at user end. However, to run the programme is remote class room mode at Institute level following computer hardware may be required:

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

Course Fee

NIL

Important Links

- Course delivery will be through IIRS-ISRO E-CLASS platform- <https://eclass.iirs.gov.in>

- Course updates, and other details will be available at- <https://www.iirs.gov.in/EDUSAT-News>
- Coordinator registration at- <https://elearning.iirs.gov.in/edusatregistration/coordinator>
- Registration of the participants- <https://elearning.iirs.gov.in/edusatregistration/student>
- Course guideline for the participants- https://eclass.iirs.gov.in/assets/guidelines_for_participants.pdf

Number of Seats

The limited number of participants can join the IIRS online courses. IIRS announces number of seats for each course. The registrations are allowed on first-come-first-served basis. Registration for the course are opened one month before the start date of the course.

Award of Certificate

In general course completion/participation certificate will be issued based on minimum 70% attendance and 40% score in online examination. However, this criteria may change based on course type and duration.

Feedback Mechanism

The participants are required to submit their feedback online through IIRS E-CLASS portal. Feedbacks are critically analyzed and implemented for improvements in further courses.

IIRS also conducts annual feedback session at IIRS campus Dehradun during IIRS Academia Meet. Selected participants and coordinators of IIRS nodal centers will be invited to attend annual IIRS Academia Meet (IAM) at IIRS Dehradun.



Outreach Programme Feedback Session during
IIRS Academia Meet (IAM)-2020



IIRS received two national awards for excellence in training for outreach and e-learning programme by Department of Personnel & Training (DoPT), Govt. of India in collaboration with United Nations Development Programme (UNDP).

Contact Details

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