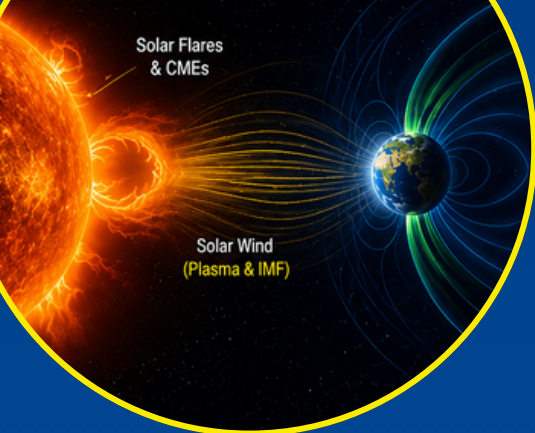




IIRS OUTREACH PROGRAMME

The IIRS outreach programme, which was started in 2007 with 12 universities/ institutions has now grown substantially to 4050+ 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 takes continuous feedback from participating institutions to improve the quality of future courses.

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>).



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186th IIRS Outreach Programme

FROM THE EARTH TO THE NEAR-EARTH SPACE

July 6th – July 10th, 2026



ORGANISED BY

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



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

ABOUT THE COURSE

India's journey in space science began with the success of Aryabhata and has since reached numerous milestones and groundbreaking discoveries through missions like the Chandrayaan series, Mars Orbiter Mission, AstroSat, Aditya-L1, and XPoSat. Building on this legacy of excellence, a short course on "From the Earth to the Near-Earth Space," offers a deep dive into the transformative research concerning our planet and its immediate cosmic environment.

These scientific endeavors have reshaped our understanding of atmospheric dynamics, solar phenomena, and the complex coupling between Earth and space. By participating in this course, students will gain insight into how India's cost-effective yet sophisticated approach has significantly advanced global space science.

CURRICULUM

The course structure is spread into following broad topics of teaching on:

- The Solid Earth and Geomagnetism.
- The Earth's Atmosphere: Layers and Coupling.
- The Ionosphere-Thermosphere-Magnetosphere of Earth.
- Atmospheric Aerosols and their impact on Earth's Atmosphere.
- Sun-Earth Connection.

COURSE PRE-REQUISITES

Should be a student of final year undergraduate course or postgraduate course (any year) of physical sciences and technology

TARGET PARTICIPANTS

The candidates who want to participate in the course should be a student of final year undergraduate course or postgraduate course (any year) of physical sciences and technology. Applications of participants have to be duly sponsored by university/institute and forwarded through coordinators from respective centres.

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 details:

Available at: <https://www.iirs.gov.in/Edusat-News/>

Registration through Nodal Centers:

Participants registering via nodal centers must obtain approval from the respective center coordinator. Application status can be viewed at: <https://elearning.iirs.gov.in/edusatregistration/>.

If an application remains pending, participants should contact their nodal center coordinator.

Individual Registration:

Participants registering individually are approved automatically. Login credentials for the ISRO Learning Management System (LMS) will be provided at: <https://isrolms.iirs.gov.in>

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

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>)

AWARD OF CERTIFICATE

Registered through Nodal centres : Based on 70% attendance, students will be awarded a "Courses Participation Certificate."

Individual Registration: A "Course Participation" certificate will be given to everyone who devotes at least 70% of each session's hours to the course. The course participation certificate will be available for download in ISRO LMS.



There are a limited number of seats. Registration will be done on a first-come, first-served basis.