

IIRS Outreach Programme

The IIRS outreach programme, which was started in 2007 with 12 universities/ institutions has now grown substantially to 3700+ 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.



Feedback session during IIRS User Academia Meet (IAM)-2024

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>).

1040th IIRS Outreach Programme



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One Day Workshop on Understanding Cryospheric Hazards

September 06 2024



Organised by

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

www.iirs.gov.in

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About the Workshop

Studies on the Himalayan cryosphere have attained global significance due to the impact of climate change on Himalayan glaciers and snow cover vis-a-vis its consequence across all major river basins arising from Himalaya affecting almost 1.5 billion people. The emerging issues include the impact of glacier and snowmelt resulting in formation of several new lakes, some of which pose severe risk due to potential Glacial Lake Outburst Flood (GLOF). A relatively new phenomenon has emerged i.e. permafrost melting and its associated hazards. Due to changing pattern of precipitation, including extreme precipitation, many avalanche chutes and snout regions have experienced huge debris slides. The workshop is aimed at addressing the high mountain hazard with emphasis on Himalayan cryospheric hazards.

Curriculum

Time (Hrs)	Lecture Topic
1100-1130	Overview of Geological hazards
1135-1220	Elements and dynamics of cryosphere from climate change perspective
1415-1500	High mountain hazards in Himalaya with emphasis on debris flow
1505-1550	Remote Sensing Application of Cryospheric Hazard

Expected Outcome

The one day workshop is expected to improve understanding of the emerging issues of Himalayan cryosphere in a holistic manner mainly related to glacier hazard, glacier dynamics, glacial lake dynamics, permafrost, landform dynamics, snow cover dynamics and debris flow. This will help early researchers and students to add new dimensions and understanding towards taking up the study for higher education and career.

Target Participants

The candidates who want to participate in the course should be students of a final-year undergraduate course or postgraduate course (any year) and citizens of India.

Course Pre-requisite

- Basic concepts of Earth Science

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/>
- Registered through Nodal centres.** The participant's registration must be approved by the coordinator of nodal centers.
- The participants can register and see their application status through URL- <https://elearning.iirs.gov.in/edusatregistration/>. In case, the application is pending for approval then participants are advised to contact the coordinator of respective nodal center.
- Registered as "Individual registrations"-**
- The participants with individual registration will be automatically approved. All the registered participants will get their login credentials for ISRO Learning Management System (LMS)- <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.