

IIRS Outreach Programme

The IIRS outreach programme, which started in 2007 with 12 universities/ institutions has now grown substantially. Currently, 920+ universities / institutions spread across India covering 29 States and 2 Union Territories are networked with IIRS. 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

The participants can submit their feedback through online portal. Feedbacks are critically analyzed and implemented in next courses. For one to one feedback the participants and participating organizations are invited to attend annual IIRS Academia Meet (IAM) at IIRS Dehradun.



Awards of Appreciation

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 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 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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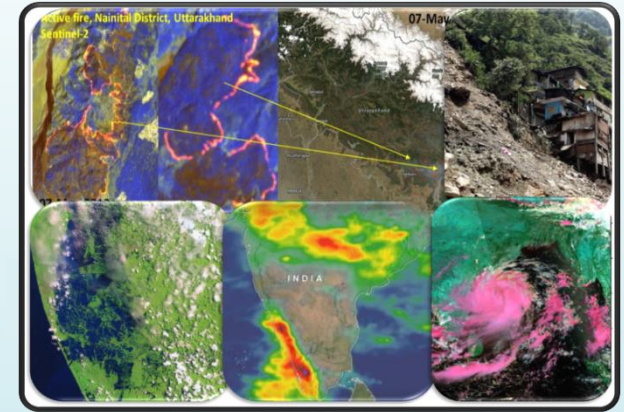
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46th IIRS Outreach Programme



Advances in Remote Sensing and Geospatial Technologies for Disaster early warning, monitoring and mitigation

July 08- July 12, 2019



Organised by

Indian Institute of Remote Sensing

Indian Space Research Organisation

Department of Space, Govt. of India

Dehradun

www.iirs.gov.in

About the Course

In recent years there has been a shift in focus from “disaster recovery and response” to “risk management and mitigation,” and adoption of frontier technologies for disaster management. The application of geoinformatics has today become an integrated part of disaster management cycle. Geoinformatic technologies include communication and information technologies coupled with geographic information system, global positioning system, and remote sensing. The availability of numerous types of data sets from various sources have greatly enhanced the capability to develop approaches that support rapid and efficient disaster response, including forecasting, early warning systems, and damage assessments.

The real-time web applications, and distributed Web-based GIS services, feature platforms for systematizing and sharing data, maps, applications, and analytics has further enhanced the application of geospatial technologies. Today internet has emerged as the only means which maximizes the potential of GIS data and software application for wider and easier access of geographical data to the planners and decision-makers. These mechanisms are quite useful for the applications where real-time dynamic data is required for planning and decision-making such as disaster or emergency management.

The course is therefore of special interest for the professionals, researchers and students interested in learning utility of the advanced geospatial technologies in the context of geospatial technologies for disaster early warning, monitoring and mitigation.

Curriculum

- Concept and principles of Disaster Management,
- Overview of RS and GIS applications in disaster management
- Emerging geospatial technology for mapping and monitoring flood, landslide, earthquake, drought, forest fire and extreme weather events.

- Early warning and vulnerability assessment for natural disasters in India

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).

Technical/ 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.

The course is designed for professionals from Central / State Govt. / State Disaster Management Agencies/ Private Organizations/ NGO engaged in Disaster Management and planning/ students and researchers aligned to research in Disaster Management.

Course Study Material

Course study materials like lecture slides, video recorded lectures, open source software & handouts of demonstrations, etc. will be made available through IIRS ftp link. Video lectures will also be uploaded on YouTube Channel (<https://www.youtube.com/user/edusat2004>).

Course Fee

The Course is free of cost.

Course Registration

- Course updates and other details will be available on URL- <https://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 has to register online through registration page by selecting his/her organization as nodal center.

Course Funding & Technical Support

The programme is sponsored by National Natural Resources Management System – Standing Committee on Training and Education (SC-T), Indian Space Research Organisation, Department of Space, Government of India

Programme Reception

Programme can be received through Internet connectivity of 2Mbps or better. 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 ;
- Large Display Screen (Projector or TV) .

Software and Internet Requirements

- IIRS Learning Management System.

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.

Note: Institutions/ universities have to bear total expenses for establishment of the classroom facility

Award of Certificate

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

Students: Based 70% attendance and attending 40% in the online examination.