IIRS Outreach Programme

The IIRS outreach programme, which started in 2007 with 12 universities/ institutions has now grown substantially. Currently, about 700 universities/ institutions spread across India are networked with IIRS. The beneficiaries of the programme may include:

- Professionals engaged in forest fire management
- Central/State/Private Universities & Academic Institutions
- Central & State Government Departments
- Research Institutes
- Geospatial Industry professionals
- NGOs

Feedback Mechanism


18th outreach programme feedback session during IIRS User Interaction Meet (UIIM)-2017

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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Geoinformatics for Forest Fire Management

April 02-06, 2018

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

Forest fires are one of the most spectacular and perceptive among the natural disasters in the vegetated areas. As with other natural disasters, forest fire also result in huge loss of resources, property, human life and health. In India around 50% of the forests are prone to forest fires and estimated annual loss due to forest fires in India is around USD 440 million.

For timely action and management of forest fire space based inputs play a critical role due to the ability to provide synoptic coverage of the landscape. Furthermore, the ability of the satellite sensors to sense the electromagnetic radiation in the regions beyond the visual range also helps in detecting the thermal anomaly due to the forest fires. Availability of new technology and techniques for forest fire assessment and monitoring using information from both low earth orbit as well as geostationary satellites have resulted in higher detection and monitoring of forest fires. The integration of space based information along with real-time meteorological information in a modelling framework helps to model the dynamic fire risk zones.

This course will provide the participants exposure to the advances in the geospatial technology for forest fire monitoring, damage assessment and modelling fire risk zones for early warning.

Curriculum

Geoinformatics for forest fire management

Overview of forest fires and role of Remote Sensing and GIS in its detection and monitoring.
Forest fire monitoring in India using Remote Sensing based thermal anomaly detection.
Hyper temporal forest fire monitoring Geostationary Earth Observation platforms.
Forest fire burnt area assessment using remote sensing
Forest fire risk assessment and modelling

Target Participants

- The course is designed for professionals from Central/Sate Govt./Private Organisations/NGO/universities engaged in forest fire management, research and ecological impact of forest fire in the natural ecosystems.
- The course participants have to be duly sponsored by their university/institution and application should be forwarded through coordinators from respective Organisations/centres. Users attending programmes under CEC-UGC/CIET/other networks can also participate. Institutions on high speed National Knowledge Network (NKN) can also participate using A-VIEW software.

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 (http://www.youtube.com/user/edusat2004).

Course Fee

There is no course fee.

Course Registration

- Course updates and other details will be available on URL http://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 and is conducted with due technical support from Amrita Virtual Interactive E-learning World (A-VIEW).

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
Online live access through http://live.iirs.gov.in with free registration.

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 on 70% attendance and an online examination.