IIRS Outreach Programme

The IIRS outreach programme, which was started in 2007 with 12 universities/ institutions has now grown substantially to 2900+. The beneficiaries of the programme may include:

- Central/State/Private Universities & Academic Institutions
- Central & State Government Organisations/ Departments
- Forest Resource Professionals
- State Forest Departments/Forest Training Academies
- Research Institutes
- NGOs

Feedback Mechanism

IIRS has conducted workshops and sessions during IIRS Academia Meet to take feedback from participating institutions to improve the quality of future courses.

IIRS Outreach programme feedback session during IIRS Academia Meet (IAM)-2020

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 is 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 (*https://elearning.iirs.gov.in*).

Contact Details

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Geoinformatics For Biodiversity Conservation Planning

December 06-17, 2021

इसरो ISRO

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

Geoinformatics have pronounced role on assessing spatial biodiversity information for conservation assessment and planning. With advent of advanced remote sensing sensors and machine learning tools, it enabled a better understanding of the ecological systems for decision making. Remote sensing applications has been widely used as a source of environmental information for monitoring biodiversity elements. The temporal dimension of remote sensing is a valuable attribute for studies of biodiversity and habitats at landscape to global scales, providing a means to study the impacts of environmental change. Advance machine learning tools are efficient in analysing large volume of data for accurately mapping the biodiversity patterns and monitoring the changes. There has been considerable development in cloud computing with regard to handling large data set on free web platforms for visualization and geospatial analysis. With the development of new active and passive sensors with improved spatial, spectral, radiometric, and temporal resolutions, Earth observation data along with better data integration approaches can contribute immensely to biodiversity change research.

Course Contents

- Applications of GIS in biodiversity conservation planning
- Fine scale mapping of vegetation using machine learning
- 3D characterisation of forest biodiversity
- Functional biodiversity assessment using geoinformatics
- Wildlife habitat suitability assessment using geoinformatics
- Cloud computing for forest monitoring
- Biodiversity informatics and wildlife telemetry

Target Participants

The course is designed for professionals from Central/State Govt./Private Organizations/NGO/students and researchers engaged in ecological studies.

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/.
• All the participants has to register online through registration page available on above web page

Course Funding & Technical Support

Programme Reception

- Individuals can attend the course live via any web-browser through the e-class portal of IIRS, Dehradun i.e. https://eclass.iirs.gov.in
- The participants can also attend the live sessions via the Youtube channel of IIRS i.e.
- https://www.youtube.com/user/edusat2004
- The content will be available offline after 24hrs in the e-class portal.

Award of Certificate

- All the participants who attend 70% sessions of the course via e-class portal.
- The participants who attend the course sessions via IIRS YouTube channel should mark their attendance via offline session available after 24hrs.