

## IIRS Outreach Programme

The IIRS outreach programme, which has started in 2007 with 12 Universities/ Institutions has now grown substantially to 2900+. The beneficiaries of this programme may include:

- Urban and Regional Planners
- Professionals and Students working on Urban and Regional Planning, Civil Engineering, Architecture, Geography, etc. from Central/State/Private Universities & other Academic Institutions
- Central & State Government Departments
- Research Institutes
- Geospatial Industries
- NGOs

## Feedback Mechanism

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



Feedback session during IIRS Academia Meet (IAM)-2020

## Awards and Appreciation

IIRS has received national awards for excellence in training for outreach and e-learning programme during 1<sup>st</sup> 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 Geo-information Science (<http://elearning.iirs.gov.in>).

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## One-day Workshop on



## Geospatial Modeling Driven Urban Hazard and Risk Analysis

December 21, 2021



Organised by

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

[www.iirs.gov.in](http://www.iirs.gov.in)

## About the Workshop

Current scenario of climate change due to intensified anthropogenic activities is one of the major causes for increased intensity and frequency of disasters. It is expected that there will be an increase in the number and severity of extreme climate events in the coming years. Urban population is highly vulnerable to increasing disasters and extreme events due to their sheer volume and density of population. The situation is exacerbated due to intensification of human activities, changes in land use/land cover, increase in impervious surfaces etc. in urban areas. Understanding the impact of these disasters in urban areas is of paramount importance in order to minimize the losses incurred as urban areas has significant contribution in a nation's growth as well as more and more population is being concentrated in urban areas.

Geospatial technologies such as remote sensing, Geographic Information System (GIS) and Global Navigation Satellite System (GNSS) can be employed effectively for assessment and modeling of disasters. Remote sensing provides synoptic view and data required for updated mapping and timely information for disaster affected areas. Similarly, GIS and GNSS have been employed for various aspects of disaster cycle such as mapping and assessment, modeling of risk and vulnerabilities and disaster response systems.

Hence, we invite you to attend this one day online webinar on "Geospatial Modeling Driven Urban Hazard and Risk Analysis". The workshop is scheduled on December 21, 2021. The course will contain six lectures covering various aspects of urban hazards.

IIRS has successfully conducted 128 courses so far with 5,62,375 participants from 3000+ Institutions/ Universities (as of 1<sup>st</sup> December , 2021) spread across India.

## Contents

### Geospatial Modeling Driven Urban Hazard and Risk Analysis

- Overview of Geospatial Appl. in Urban Hazards & Risk Analysis
- Urban Flood Hazards and Risk Modeling
- Urban Seismic Risk Assessment
- Cultural Heritage Conservation and Risk Assessment
- Air Pollution Hazard Assessment
- Geospatial Modeling for Heat Waves and Urban Micro-climate Studies

## Target Participants

The course is designed for Professionals, researchers and students engaged in the field of Urban & Regional Planning, Geospatial Technologies, Disaster Risk and Mitigation, Environmental Studies, Civil Engineering, Architecture and Modeling Community.

## Registration Fee

There is no registration fee.

## Award of Certificate

- All the participants who attend the programme through e-class portal will get a participation certificate .

## Workshop Registration

- Course updates and other details will be available on URL- <http://www.iirs.gov.in/Edusat-News/>.
- All the participants have to register online through registration page available on above web page

## Funding & Technical Support

The programme is sponsored by IIRS, Indian Space Research Organisation, Department of Space, Government of India, Dehradun

## 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>

**Note:** There are limited number of seats. Registration will be done on first come first serve basis