

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

75th IIRS Outreach Programme

on

“Geoinformatics for Disaster Management”

By Dr. Manu Mehta, Mr. Hari Shankar, Dr. Shutosh Bhardwaj, Ms. Shefali Agarwal, Dr. Harish C. Karnatak, Dr. P. K. Champati Ray, Dr. Arijit Roy, Dr. R. S. Chatterjee, Dr. N. R. Patel, Dr. S. P. Agarwal, Dr. A. K. Mishra, Dr. Yogesh Kant,, Indian Institute of Remote Sensing, Dehradun

05 - 16 April, 2021

The Department of Electronics and Communication Engineering has organized a 9-Day Outreach Programme conducted by Indian Institute of Remote Sensing, Dehradun during 05 - 16 April, 2021. The target audience are the faculty and students of various disciplines of Sree Vidyanikethan Educational Trust, Tirupati.

Natural disasters are becoming more frequent and intense across the globe. Geoinformatics, which includes Remote Sensing, Geographic Information System, Global Positioning Systems, and Internet Mapping Services, provides the most powerful technology for all phases of disaster management i.e., hazard mapping, monitoring, risk assessment, emergency response and reconstruction including early warning.

Following topics will be covered in this course

- Overview of Geo informatics Technology
 - Basic concepts of remote sensing
 - Basic concepts of Geographic Information System
 - Overview of UAV for disaster monitoring and mitigation
 - Overview of Global Navigation Satellite System
 - Web Portals & Data Services for Disaster Risk Reduction
- Application of Geo informatics in Disaster Risk Reduction(DRR)
 - Overview of geo informatics technology and its role in main streaming DRR
 - Geological Hazards
 - Hydrological Hazards
 - Forest Fire Hazards
 - Drought Hazards
 - Coastal Hazards
 - Atmospheric & Pollution Hazards

Finally, on 16.04.2021, a panel discussion with all the mentors is conducted for interaction with the participants. Five participants have attended this programme.

Dr. V. V. Satyanarayana Tallapragada, Associate Professor has coordinated this event under the guidance of Dr. N. Gireesh, Professor and Head, Department of Electronics and Communication Engineering.


Convener



**75th IIRS Outreach Programme on
"Geoinformatics for Disaster Management"
April 05-16, 2021**

S.No.	Date	Lecture	Expert/Faculty
1	05-04-2021 1600-1730 Hrs.	Basic concepts of remote sensing Earth Observation data	Dr. Manu Mehta
2	06-04-2021 1600-1730 Hrs.	Basic concepts of Geographic Information System	Mr. Hari Shankar
3	07-04-2021 1600-1730 Hrs.	Overview of Global Navigation Satellite System	Dr. Ashutosh Bhardwaj
4	08-04-2021 1600-1730 Hrs.	Overview of UAV for disaster monitoring and mitigation	Ms. Shefali Agarwal
5	09-04-2021 1600-1730 Hrs.	Web Portals & Data Services for Disaster Risk Reduction	Dr. Harish C. Karnatak
6	12-04-2021 1600-1730 Hrs.	Overview of geoinformatics technology and its role in mainstreaming DRR	Dr. P. K. Champati Ray
7	13-04-2021 1500-1600 Hrs.	Forest Fire Hazards	Dr. Arijit Roy
8	13-04-2021 1600-1730 Hrs.	Geological Hazards	Dr. R. S. Chatterjee
9	15-04-2021 1530-1630 Hrs.	Drought Hazards	Dr. N R Patel
10	15-04-2021 1630-1730 Hrs.	Hydrological Hazards	Dr. S.P.Aggarwal
11	16-04-2021 1530-1630 Hrs.	Coastal Hazards	Dr. A.K.Mishra
12	16-04-2021 1630-1730 Hrs.	Atmospheric & Pollution Hazards	Dr. Yogesh Kant

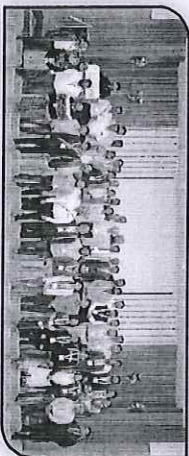
IIRS Outreach Programme

The IIRS outreach programme, which was started in 2007 with 12 universities/ institutions has now grown substantially to 2500+ 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

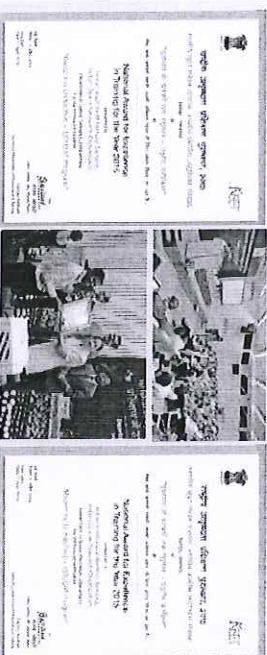
IIRS has conducted eleven workshops in 2007, 2009, 2010, 2013, 2014, 2015, 2016, 2017, 2018, 2019 and 2020 to take feedback from participating institutions to improve the quality of future courses.



Feedback session during IIRS User Interaction Meet (UIM)-2020

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>).

Contact Details

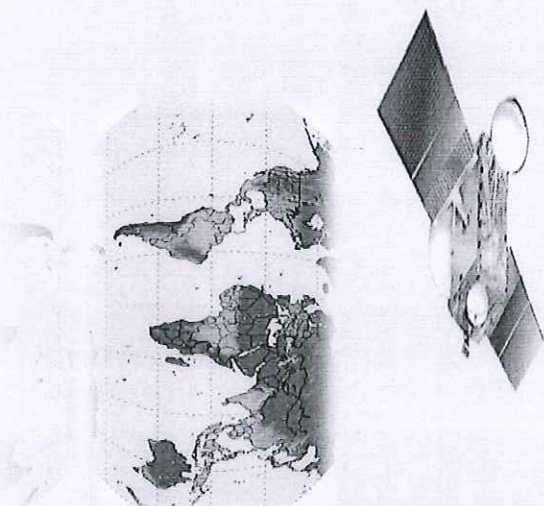
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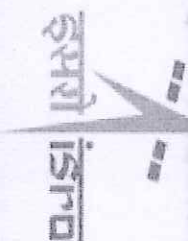
Indian Institute of Remote Sensing,
Indian Space Research Organisation
Department of Space, Govt. of India,
4-Kalidas Road, Dehradun

75th IIRS Outreach Programme



Geoinformatics for Disaster Management

April 05-16, 2021



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

Natural disasters are becoming more frequent and intense across the globe. Geoinformatics, which includes Remote Sensing, Geographic Information System, Global Positioning Systems, and Internet Mapping Services, provides the most powerful technology for all phases of disaster management i.e. hazard mapping, monitoring, risk assessment, emergency response and reconstruction including early warning. The course is scheduled from April 05-16, 2021.

Curriculum

Overview of Geoinformatics Technology

- Basic concepts of remote sensing
- Basic concepts of Geographic Information System
- Overview of UAV for disaster monitoring and mitigation
- Overview of Global Navigation Satellite System
- Web Portals & Data Services for Disaster Risk Reduction

Application of Geoinformatics in Disaster Risk Reduction (DRR)

- Overview of geoinformatics technology and its role in mainstreaming DRR
- Geological Hazards
- Hydrological Hazards
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- Drought Hazards
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Expected Outcome

At the end of this course participants will be aware of the potential of geoinformatics technology for mapping, monitoring and mitigation of various natural hazards.

Target Participants

The course is designed for professionals from Central / State Govt. / Private Organizations / NGO engaged in hydro-meteorological based regional and national projects; students and researchers aligned to research/working in DRR activities

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/>
- 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 have to register online through registration page by selecting his/her organization as nodal center.

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

Courses updates and other details will be available on URL – <https://www.iirs.gov.in/EDUSAT-News>

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/>)

All the participants have to register online through registration page by selecting his/her organization as nodal centre. <https://elearning.iirs.gov.in/edusatregistration/student>

Award of Participation Certificate

Working Professionals and Students: Participation certificate Based on 70% attendance.

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



Dr. V. V. Satyanarayana T

75- IIRS Outreach Programme on Geoinformatics for Disaster Management

View Student Attendance Attendance Status Study Material Download Certificates

Attendance Record For Course On Geospatial Technology For Disaster Risk Reduction-One Day Online Workshop

Show 10

entries

Search:

Registration Number	Name	Total Sessions	No. of sessions attended	%ge of Attendance	Eligibility for Examination/Certificate
202175738014	MR. KALISSETY PAVAN KUMAR	12	12	100.00	Yes
202175762062	MR. CHINNI SAI SREE HARSHA	12	12	100.00	Yes
202175762149	MS. MEDIKURTHI NEEHARIKA	12	12	100.00	Yes
202175762311	MS. CHALICHALAMALA JEEVANA PRIYA	12	10	83.33	Yes
202175771059	MR. SHAIK MAQSOOD BASHA	12	10	83.33	Yes

Showing 1 to 5 of 5 entries

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USEFUL LINKS

IIRS e-Learning Brochure (https://elearning.iirs.gov.in/imgs/elearning_IRS-English_Version2018.pdf)

Annual Course Calendar IIRS Distance Learning Programme - 2020 ([https://elearning.iirs.gov.in/imgs/Annual%20Course%20Calendar%202020%20-revised%20\(4\).pdf](https://elearning.iirs.gov.in/imgs/Annual%20Course%20Calendar%202020%20-revised%20(4).pdf))

IIRS Application Form (https://elearning.iirs.gov.in/imgs/application_form.pdf)

ISRO (<https://www.isro.gov.in/>)

CSSTEAP (<https://www.cssteap.org/>)