

**Report on
97- IIRS ISRO Outreach Programme**

on

**“New Advanced Geospatial Technologies for Disaster Risk Reduction (DRR)”
(Human Resource Development Center, Integral University, Lucknow)**

April 18-29, 2022

Human Resource Development Centre (HRDC), Integral University Lucknow is one of the Remote Center of Indian Institute of Remote Sensing (IIRS), Indian Space Research Organization (ISRO), Department of Space, Govt. of India, Dehradun, India. Human Resource Development Centre, Integral University, Lucknow had successfully organized the 97- IIRS ISRO Outreach Programme on “**New Advanced Geospatial Technologies for Disaster Risk Reduction (DRR)**” from April 18-29, 2022 for working professionals and students in association with Indian Institute of Remote Sensing, Indian Space Research Organization, Department of Space, Govt. of India, Dehradun.

Indian Institute of Remote Sensing (IIRS) under Indian Space Research Organization (ISRO) is a premier Training and Educational Institute set up for developing trained professionals in the field of Remote Sensing, Geo Informatics 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.

The technical sessions constituted of a wide variety of topics taken by a team of expert’s viz.:

S. No.	Date	Topic	Resource Person	Link of material
1.	18 April 22	Overview of Remote Sensing sensors and platforms.	Ms.	https://eclasscms.iirs.gov.in/watch_lecture.php?id=NjYmU2F0ZWxsaXRlcyBiYXNlZCBBdWdtZW50YXRpb24gc3lzdGVtcyAgR1BTIEFpZGVkGFuZCBHRU8gQXVnbWVudGVkIE5hdmlnYXRpb24gKEdBROFOKSYgRHIuIEFzaHV0b3NoIEJoYXJkd2FqJmRSVFBSaG5kSThnJlIwMjAtMDktMTc=
2.	19 April 22	Applications of UAV in disaster response.	Dr. Ashutosh	https://eclasscms.iirs.gov.in/watch_lecture.php?id=NjYmR1BTIHJlY2VpdmVycywgchJvY2Vze2luZyBiZXRob2RzLCBlcnJvcnMgYW5kIGFjY3V5YWN5JkRyLiBBc2h1dG9zaCBCaGFyZhdhaiZqZFRDNHItOU92WSYyMDIwLTASLTE1
3.	09 March 22	Spectroscopy of Major Rocks and Minerals.	Mr. Vinay Kumar	https://eclasscms.iirs.gov.in/watch_lecture.php?id=NjYmU2F0ZWxsaXRlcyBiYXNlZCBBdWdtZW50YXRpb24gc3lzdGVtcyAgR1BTIEFpZGVkGFuZCBHRU8gQXVnbWVudGVkIE5hdmlnYXRpb24gKEdBROFOKSYgRHIuIEFzaHV0b3NoIEJoYXJkd2FqJmRSVFBSaG5kSThnJlIwMjAtMDktMTc=

				EJoYXJkd2FqJmRSVfBSaG5kStHnjJwMjAtMDktMTc=
4.	10March 22	Compositional Analysis of Lunar and Martin Crust using Hyperspectral Sensors.	Dr. Ashutosh Bhardwaj	https://eclasscms.iirs.gov.in/watch_lecture.php?id=NjYmR1BTIHnpZ25hbCBjaGFyYWN0ZXJpc3RpY3MsIERhdGEgZm9ybWF0cyAoYnJvYWVjYXN0LCBwcmVjaXNlIGVwaGVZlXJpcykmRHlulEFzaHV0b3NoIEJoYXJkd2FqICYgU2hyaSBBC2hpc2ggSm9zaGkmY3FabWlyb2k4SWsmMjAyMC0wOS0xOA==
5.	11March 22	Hyperspectral Remote Sensing for Geographical Applications.	Shri Ashish Joshi	https://eclasscms.iirs.gov.in/watch_lecture.php?id=NjYmQWR2YW5jZSBHTINTIHByb2Nlc3NpbmcmU2hyaSBTdXJlc2ggS2FubmF1aml5YSZlSUV9VQ29fMFp4cyYyMDIwLTA5LTI1
6.	20April 22	Geocomputation, Online GIS and Geo web services for DRR .	Mr. Vinay Kumar	https://eclasscms.iirs.gov.in/watch_lecture.php?id=NjYmQWR2YW5jZSBHTINTIHByb2Nlc3NpbmcmU2hyaSBTdXJlc2ggS2FubmF1aml5YSZlSUV9VQ29fMFp4cyYyMDIwLTA5LTI1
7.	21April 22	Role of machine learning techniques for disaster management.	Dr. Ashutosh Bhardwaj	https://eclasscms.iirs.gov.in/watch_lecture.php?id=NjYmQWR2YW5jZSBHTINTIHByb2Nlc3NpbmcmU2hyaSBTdXJlc2ggS2FubmF1aml5YSZlSUV9VQ29fMFp4cyYyMDIwLTA5LTI1
8.	22April 22	Role of GPS and GNSS in disaster management.	Dr. Ashutosh Bhardwaj	https://eclasscms.iirs.gov.in/watch_lecture.php?id=NjYmMjJlU2VwIDIwMjBfREdQUyBkZW1vbW9uKSZlEci4gQXNodXRvc2ggQmhhcmR3YWomclpZSVA4WFJzZmMjAyMC0wOS0yMG==
9.	25April 22	Advanced Geoinformatic tools for forest fire management.	Shri Kamal Pandey	https://eclasscms.iirs.gov.in/watch_lecture.php?id=NjYmMjJlU2VwIDIwMjBfREdQUyBkZW1vbW9uKSZlEci4gQXNodXRvc2ggQmhhcmR3YWomclpZSVA4WFJzZmMjAyMC0wOS0yMG==
10.	26April 22	Application of DinSAR for disaster management.	Shri Kamal Pandey	https://www.youtube.com/watch?v=P51p977PIAo
11.	27April 22	Application of advanced Geospatial tools for urban Hazards.	Mr. Vinay Kumar	https://eclasscms.iirs.gov.in/watch_lecture.php?id=NjYmMjJlU2VwIDIwMjBfREdQUyBkZW1vbW9uKSZlEci4gQXNodXRvc2ggQmhhcmR3YWomclpZSVA4WFJzZmMjAyMC0wOS0yMG==
12.	28April 22	Advanced Geoinformatic tools for Urban Hazards.	Shri Kamal Pandey	https://www.youtube.com/watch?v=V3F4WzLSgrY
13.	29April 22	Advanced Geoinformatic tools for GLOF Hazards.	Shri Kamal Pandey	https://eclasscms.iirs.gov.in/watch_lecture.php?id=NjYmQWR2YW5jZSBHTINTIHByb2Nlc3NpbmcmU2hyaSBTdXJlc2ggS2FubmF1aml5YSZlSUV9VQ29fMFp4cyYyMDIwLTA5LTI1

Overall, Nine Participants attended the program and got benefitted from the much needed and timely insights on DRR. Program was very well coordinated by Dr. Imran Ullah Khan, Nodal Centre Coordinator under the guidance of Convener Prof. Syed Aqeel Ahmad, Director, HRDC, Integral University, Lucknow.

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re about the course stay hooked on our post for more information

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New Advanced Geospatial Technologies for Disaster Risk Reduction (D

Geographical Information System

- Geographical information system can be defined as a system of hardware and software for measuring, storing, retrieving, mapping, monitoring, modeling, and analyzing a variety of data types related to geographic and natural phenomena.

GIS DATA LAYERS

Many different types of data can be integrated into a GIS and represented as a map layer.

Examples can include: streets, parcels, zoning, flood zones, client locations, competition, shopping centers, office parks, demographics, etc.

When these layers are drawn on top of one another, undetected spatial trends and relationships often emerge. This allows us to gain insight about relevant characteristics of a location.

<http://gosoftesolutions.com/wp-content/uploads/2015/05/gisdata.jpg>

7:43 / 48:56 • Geographical Information System

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Application of Science and Technology- Remote Sensing, GIS and GPS in Disaster Management