

**IIRS ISRO Outreach Programme on
“9011- IIRS ISRO Special Course on Remote Sensing, GIS and GNSS
Technology”
(Human Resource Development Center, Integral University, Lucknow)
April 13, 2020 to April 25, 2020**

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. HRDC has successfully organized the 9011- IIRS ISRO Outreach Programme “**Special Course on Remote Sensing, GIS and GNSS Technology**” from April 13, 2020 to April 25, 2020 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.

Prime focus of 9011- IIRS ISRO Outreach Programme was Basic Principles of Remote Sensing, Earth Observation Sensors and Platforms, Spectral Signatures of Different Land Cover Features & Visual Image Interpretation, Digital Image Processing - Basic concepts, Demonstration of QGIS, Concept of Online GIS –An Introduction to Geoweb Services and Geo-web portals and disaster management.

The technical sessions constituted of a wide variety of topics taken by a team of expert’s as mentioned below:

S.N.	Date	Topic	Resource Person	Link of material
1.	13 April 2020_Session1	Basic Principles of Remote Sensing	Dr. Manu Mehta	https://drive.google.com/file/d/1wpC2ynWv_aFng3ETDx5RUTiHDTf4VTRMM/view
2.	13 April 2020_Session 2	Earth Observation Sensors and Platforms	Shri Vinay Kuamr	https://drive.google.com/file/d/180RcqcPJyodUaWir8FZpWqpNGXrAtsq/view
3.	14 April 2020_Session1	Spectral Signatures Of Different Land Cover Features & Visual Image Interpretation	Dr. Hina Pande	https://drive.google.com/file/d/1FRozxwasENPQ4aTh0alVupj7squDU4v8/view
4.	14 April 2020_Session 2	Digital Image Processing - Basic concepts	Mrs Minikashi Kumar	https://drive.google.com/file/d/1RGxDs1bYoMF9aO0DX68ATW3zskH7RwO8/view
5.	15 April 2020_Session1	Digital Image Enhancement	Mrs Minikashi Kumar	https://drive.google.com/file/d/1ScU8pwCBcq5wNyuvuC8rJloffv1NArMh/view

S.N.	Date	Topic	Resource Person	Link of material
6.	15 April 2020_Session 2	Digital Image Classification	Dr. Poonam S Tiwari	https://drive.google.com/file/d/14v31MBDs_nJe0F0FB0M3N9S9aBOce8giM/view
7.	16 April 2020_Session1	Classification Accuracy Assesment and Change detection	Dr. Poonam S Tiwari	https://drive.google.com/file/d/1iQ2SIa9kHA3Dw6BQUTIT5z0xYrt10nu-/view
8.	20 April 2020	Mobile GIS – An overview	Dr. Harish C. Karnatak	https://drive.google.com/file/d/1t7_axOCX1Nf6tbb1kXrSrDIDf5jcHOB/view
9.	21 April 2020_Session1	Data_inputting_editing	Shri. Shiva Reddy	https://drive.google.com/file/d/1VRLwB2BEaQYJ3aQtyULA32Q4Xd8FsZdw/view
10.	21 April 2020_Session2	Geographic Phenomena - Concepts and Examples	Prasun Kumar Gupta	https://drive.google.com/file/d/1v16dDJcigDe8NJ7fa2sfL4poxzoqmP1o/view
11.	23 April 2020_Session1	Spatial Analysis – Introductory Concept and Overview	Shri. Prabhakar Alok Verma	https://drive.google.com/file/u/1/d/1yU3mNBWwnWBve2gs5FfMDjwAh2yyPeF-/view
12.	23 April 2020_Session2	Spatial Analysis-Functionality and Tools	Shri. Kapil Oberai	https://drive.google.com/file/d/1odPqsS-I918TMK_2GR31bUJGvR7daKyb/view
13.	24 April 2020_Session1	Data Quality & Policies OGC, NSDI & GSDI Initiatives	Dr. Harish C. Karnatak	https://drive.google.com/file/d/1nF71Nqmp3-jQKcyFr6YBjjJVEbk8ype/view
14.	24 April 2020_Session2	Demonstration of QGIS	Shri. Prasun Kumar Gupta	https://drive.google.com/file/d/1JICBtgqd-d3YK5CF2wFCrsgMEPOYC4y/view
15.	25 April 2020	Concept of Online GIS –An Introduction to Geoweb Services	Dr. Harish C. Karnatak	https://drive.google.com/file/u/1/d/1_3QqSVMFjWU8i8yACmkaB11bFDNP7tY-/view

Overall **Forty eight participants** from University attended the program and got benefited from the much needed and timely insights on Basic Principles of Remote Sensing, Digital Image Processing - Basic concepts and Mobile GIS – An overview.

Participants are evaluated on the basis of an online examination of 1 hour during a fixed time slot on June 4, 2020 with a minimum passing criterion of 40% for certification by ISRO.