



Govt. of India  
Department Space  
Indian Space Research Organization  
Indian Institute of Remote Sensing



**Eighty Sixth IIRS Outreach Programme**  
On

**Remote Sensing & Digital Image Analysis**

**Course Schedule**

S. No.	Course Name	Module Name	Module Coordinator	From	To
1.	Remote Sensing & Digital Image Analysis	Module-1	Mrs. Minakshi Kumar	16-08-2021	10-09-2021

**Duration of the Course: 16 August-10 September, 2021**

Date	Day	Time	Topic	Speaker
16/08/2021	Monday	1530-1600 hrs	Course Inauguration	
		1610-1700 hrs	Inaugural Lecture <b>ISROs Earth Observation missions for Societal benefits</b>	Dr. Prakash Chauhan
17/08/2021	Tuesday	1600-1730 hrs	Basic Principles of Remote Sensing	Ms. Manu Mehta
18/08/2021	Wednesday	1600-1730 hrs	Earth Observation Sensors and Platforms	Mr. Vinay Kumar
19/08/2021	Thursday	1600-1730 hrs	Spectral Signatures of Different Land cover Features and Visual Image interpretation	Dr. Hina Pande
20/08/2021	Friday	-	<b>Holiday - Muharram</b>	-
23/08/2021	Monday	1600-1730 hrs	Digital Image Processing: Basic Concepts Rectification and Registration	Ms. Minakshi Kumar
24/08/2021	Tuesday	Offline	RS and Image Interpretation Practical	
24/08/2021	Tuesday	1600-1730 hrs	Image Enhancement techniques	Dr. Poonam S. Tiwari
25/08/2021	Wednesday	1600-1730 hrs	Image Classification Techniques	Dr. Anil Kumar
26/08/2021	Thursday	1600-1730 hrs	Advanced Classifiers and Accuracy Assessment	Dr. Anil Kumar

Date	Day	Time	Topic	Speaker
27/08/2021	Friday	1600-1730 hrs	Thermal Remote Sensing	Dr. Yogesh Kant
<b>30/08/2021</b>	<b>Monday</b>	<b>Holiday - Janmashtami</b>		
31/08/2021	Tuesday	1600-1730 hrs	Hyperspectral Remote Sensing	Mr. Vinay Kumar
01/09/2021	Wednesday	1600-1730 hrs	Image Processing Hands-on Demo using QGIS	Mr. Prasun Gupta
02/09/2021	Thursday	1600-1730 hrs	Google Earth Engine API: Introduction and case studies	Ms. Supriya Sharma
03/09/2021	Friday	1600-1730 hrs	Open Source Data and International Geoportals for Satellite data download	Dr. Harish Karnatak
06/09/2021	Monday	1600-1730 hrs	Overview of Microwave Remote Sensing	Dr. Shashi Kumar
07/09/2021	Tuesday	1600-1730 hrs	Overview of SAR Data Processing	Mr. Ashish Joshi
08/09/2021	Wednesday	1600-1730 hrs	Overview of UAV Remote Sensing	Mrs. Shefali Agrawal
09/09/2021	Thursday	1600-1730 hrs	Overview of LIDAR Remote Sensing	Dr. Hina Pande
10/09/2021	Friday	<b>1430- 1730 Query Session / Feedback / Valedictory</b>		

Note: Details about the course, examination and latest schedule will be updated on below link;

<https://www.iirs.gov.in/>

or

<https://www.iirs.gov.in/EDUSAT-News>

Fifty IIRS Outreach Programme  
On  
Basic of RS, GIS & GNSS

**Course Schedule**

Sl No.	Course Name	Module Name	From	To
1.	Basic of RS, GIS & GNSS	-	19-08-2019	22-11-2019
2.	Remote Sensing & Digital Image Analysis	Module-1	19 Aug	09 Sep
3.	Global Navigation Satellite System	Module-2	12 Sep	24 Sep
4.	Geographical Information System Module	Module-3	25Sep	24 Oct
5.	RS & GIS Applications	Module-4	29 Oct	22 Nov

August, 2019

**Module 1: Remote Sensing & Digital Image Analysis**  
**Module/ Course Coordinator: Mrs. Minakshi Kumar**

Date	Day	Time	Topic	Speaker
19 Aug 19	Monday	1530-1550 hrs	Course Inauguration	Dr. S.K.Srivastav
19 Aug 19	Monday	1600-1730 hrs	Basic Principles of Remote Sensing	Dr. Manu Mehta
20 Aug 19	Tuesday	1600-1730 hrs	Earth Observation Sensors and Platforms	Mr. Vinay Kumar
21 Aug 19	Wednesday	1600-1730 hrs	Thermal Remote Sensing	Dr. Yogesh Kant
22 Aug 19	Thursday	1600-1730 hrs	Spectral Signatures of Different Land cover Features and Visual Image interpretation	Dr. Hina Pande
23 Aug 19	Friday	1600-1730 hrs	Introduction to RS Data Products	Dr. Hina Pande
<b>24 Aug 19</b>	-	<b>Saturday</b>	-	
<b>25 Aug 19</b>	-	<b>Sunday</b>	-	
26 Aug 19	Monday	Offline	RS and Image Interpretation Practical	By University Coordinator
27 Aug 19	Tuesday	1600-1730 hrs	Digital Image Processing: Basic Concepts Rectification and Registration	Ms. Minakshi Kumar
28 Aug 19	Wednesday	1600-1730 hrs	Image Enhancement techniques- Contrast, Filtering Transformations	Ms. Minakshi Kumar
29 Aug 19	Thursday	1600-1730 hrs	Image Classification Techniques – Unsupervised, Supervised and Separability Analysis	Dr. Poonam S. Tiwari
30 Aug 19	Friday	1600-1730 hrs	Digital Change Detection and Accuracy Assessment	Dr. Poonam S. Tiwari
31 Aug 19		<b>Saturday</b>	-	
01 Sep 19		<b>Sunday</b>	-	
02 Sep 19		<b>Monday</b>	<b>Vinayaka Chaturthi</b>	
03 Sep 19	Tuesday	1600-1730 hrs	Hyperspectral Remote Sensing	Mr. Vinay Kumar
04 Sep 19	Wednesday	1630-1730 hrs	Image Processing hands on using ILWIS	Ms. Minakshi Kumar
05 Sep 19	Thursday	Offline - as per computer lab availability	Image Processing Hands-on and Practical Assignment	By University Coordinator
06 Sep 19	Friday		Digital Data Browsing	Dr. Poonam S . Tiwari
07 Sep 19	-	<b>Saturday</b>	-	
08 Sep 19	-	<b>Sunday</b>	-	
09 Sep 19	Wednesday	1630-1730 hrs	Microwave Remote Sensing	Dr. Shasi Kumar

50<sup>th</sup> Course on Basic of RS, GIS & GNSS Consist 04 Module

- 1- Remote Sensing & Digital Image Analysis
- 2- Global Navigation Satellite System
- 3- Geographical Information System
- 4- RS & GIS Applications

**There will be 01 exam for Basic of RS, GIS & GNSS after completion of the course**

**And a single exam for each Course no 51<sup>th</sup>, 52<sup>th</sup>, 53<sup>th</sup> and 54<sup>th</sup> course**

<b>Sl. No</b>	<b>Exam Name</b>	<b>Exam Date</b>
1-	Online Examination 51 <sup>th</sup> Course or Module1 on Remote Sensing and Digital Image Analysis	Last week of the Month
2-	Online Examination 52 <sup>th</sup> Course or Module 1 on Global Navigation Satellite System	Will be conducted first week and last week of the Month
3-	Online Examination of 53 <sup>th</sup> Course or Module 3 on Geographical Information System	Will be conducted first week and last week of the Month
4-	Online Examination of 54 <sup>th</sup> Course or Module 4 on <i>RS &amp; GIS Applications</i>	Will be conducted first week and last week of the Month