

Indian Space Research Organisation (ISRO)  
INDIAN INSTITUTE OF REMOTE SENSING, DEHRADUN  
Annual Course Calendar IIRS Distance Learning Programme - 2021

**A. Course to be conducted in Morning Session (1100-1230 IST)**

S. No	Course number	Course/Webinar	Tentative Time Slot	Duration	Coordinator
1.		Basics of "Remote Sensing, Geographical Information System and Global Navigation Satellite System – Through SWAYAM portal Link for join: <a href="https://onlinecourses.swyam2.ac.in/aic20_ge05/preview">https://onlinecourses.swyam2.ac.in/aic20_ge05/preview</a>	January 20 – April 30, 2021	15 Weeks	Dr. Poonam S. Tiwari
2.	6001	Space Technology & Applications for School Teachers.	May 31- June 04, 2021	1 Week (2 sessions per day)	Dr. Harish Chandra Karnatak
3.	80	Earth Observation for Carbon Cycle Studies	June 21-25, 2021	1 Week	Dr. N. R. Patel
4.	91	सुदूर संवेदन एवं जीआईएस प्रौद्योगिकी के मूल सिद्धांत	September 14-28, 2021  (Special course during Hindi Pakhwada)	2 Weeks	Dr. Harish Chandra Karnatak/ Mr. Kamal Pandey/Mr. Dharmendra Kumar
5.	92	Geospatial Inputs for Enabling Master Plan Formulation for AMRUT sub scheme.	October 11-15, 2021	1 Week	Mr. Pramod Kumar

**B. Course to be conducted in Evening Session (1600-1730 IST)**

S. No	Course number	Course	Tentative Time Slot	Duration	Course Director/Coordinator
1.	73	Overview of Geoprocessing using Python	January 18-29, 2021	2 Weeks	Dr. Harish Chandra Karnatak/ Mr. Ravi Bhandari
2.	74	Satellite based Navigation: A Journey from GPS to Mobile phone platform	March 01-12, 2021	2 Weeks	Dr. Anil Kumar/ Dr. Ashutosh Srivastav/Dr. Ashutosh Bhardwaj
3.	75	Geoinformatics for Disaster Management	April 05-16, 2021	2 Weeks	Dr. Arijit Roy/Mr. C.M. Bhatt
4.	76	GIS for Supply Chain Management	April 26-30, 2021	1 Week	Dr. Sameer Saran/Mr. Prasun K. Gupta
5.	77	Geospatial Technology for Archeological studies	May 17-28, 2021	2 Weeks	Dr. Poonam S. Tiwari/ Dr. Hina Pande
6.	79	Himalayan Cryospheric Studies under Changing Climate	June-07-11, 2021	1 Week	Dr. Pratima Pandey

S. No	Course number	Course	Tentative Time Slot	Duration	Course Director/Coordinator
			Postponed (revised dates will be announced later)		
7.	81	Overview of Web GIS Technology	June 21- July 02, 2021	2 Weeks	Dr. Harish Chandra Karnatak/ Mr. Kamal Pandey
8.	82	Machine Learning to Deep Learning: A Journey for remote sensing data classification	July 05-09, 2021	1 Week	Dr. Anil Kumar
9.	83	Geospatial technology for hydrological modelling	July 19-30, 2021	2 Weeks	Dr. S.P.Agarwal
10.	84	Geospatial Modelling for Watershed Management	August 02-06, 2021	1 Week	Dr. Suresh Kumar
11.	85	Basics of "Remote Sensing, Geographical Information System and Global Navigation Satellite System	August 16 – November 26, 2021	14 Weeks	Dr. Poonam S. Tiwari
12.	86	Basics of Remote Sensing and Digital Image Analysis	August 16 – September 11, 2021	4 Weeks	Ms. Minakshi Kumar
13.	87	Basics of Global Navigation Satellite System	September 13 – 24, 2021	2 Weeks	Dr. Ashutosh Bhardwaj
14.	88	Basics of Geographical Information System	September 27- October 22, 2021	4 Weeks	Mr. Prabhakar Alok Verma
15.	89	Basics of Geocomputation and Geoweb Services	October 25 -29, 2021	1 Week	Mr. Kamal Pandey
16.	90	RS & GIS Applications in Natural Resource Management	November 01-26, 2021	4 Weeks	Mr. C.M. Bhatt
17.	93	Geo-informatics for Biodiversity Conservation Planning.	December 06-17, 2021	2 Weeks	Dr. Hitendra Padalia/ Dr. Subrata Nandy

### C. International Courses/Webinar Series (1830-20:00 IST)

S. No	Course number	Course/Webinar	Tentative Time Slot	Duration	Coordinator
1.	5006	Space based observations for meteorological hazards	September 06-10, 2021	1 Week	Dr. D. Mitra
2.	5007	Space based Early warning Systems for Natural Disasters - <ul style="list-style-type: none"> <li>Flood</li> <li>Tropical Cyclones,</li> <li>Forest Fire,</li> <li>Landslide,</li> <li>Extreme Weather and</li> <li>Decision support systems for Disaster Early warnings</li> </ul>	November 08-19, 2021  (2 Sessions /alternate day (40 Min each)	2 Weeks	Dr. P. K. Champati Ray/Dr. Arijit Roy
3.	5005	Webinar Series on: Image Restoration and Processing of SAR Data <ul style="list-style-type: none"> <li>SAR Remote Sensing- Technology &amp; Applications</li> </ul>	May 07, 13, 21, 28 2021	1 hour each session	Mr. Ashish Joshi

S. No	Course number	Course/Webinar	Tentative Time Slot	Duration	Coordinator
		<ul style="list-style-type: none"> <li>SAR Data Processing Techniques</li> <li>SAR Geocoding techniques</li> <li>SAR Interferometry</li> </ul>			

### D. Webinar Series (1100-1230 IST)

S. No	Course number	Webinar	Tentative Time Slot	Duration	Coordinator
1.	1013	Webinar Series on Image Restoration and Processing of Optical Data <ul style="list-style-type: none"> <li>Image pre-processing techniques- Optical remote sensing</li> <li>Radiometric corrections and normalization for satellite data</li> <li>Atmospheric corrections of Optical imagery</li> <li>Object Based Image Analysis for Earth Observation Optical data</li> </ul> <p>Note: Course has been reschedule due to technical reason, new date is April 16, 23, 30 and 07 May 2021.</p>	<del>April 09, 16, 23, 30, 2021</del>  New date: April 16,23,30 and 07 May, 2021	1 hour each session	Dr. Manu Mehta  Ms. Minakshi Kumar

### E. Full day Workshop

S. No	Course number	Workshop Title	Tentative Time Slot	Duration	Focal Point
1.	1011	अंतरिक्ष प्रौद्योगिकी और इसके अनुप्रयोग	January 11, 2021	1 Day	Dr. Harish Chandra Karnatak/ Mr. Kamal Pandey
2.	1012	Satellite altimetry for River monitoring  Note: Course has been reschedule due to technical reason, new date is October 04, 2021	<del>March 17, 2021</del>  <del>August 10, 2021</del>  October 04,2021	1 Day	Dr. S.P. Aggarwal
3.	1014	Earth Observation based Mapping, Monitoring and Modelling of Landslide: Recent trends and support to early warning system	April 21, 2021	1 Day	Dr. Shovan Chattoraj
4.	1015	Lunar Remote Sensing and Applications	<del>May 12, 2021</del>  August 11,2021	1 Day	Dr. Mamta Chauhan
5.	1016	ISRO Geoportals and Information Services- ISRO Inter centre	June 16, 2021	1 Day	Dr. Harish Chandra Karnatak
6.	1017	SAR Application for flood hazard mapping and monitoring	July 14, 2021	1 Day	Dr. Arijit Roy/Mr. C.M.Bhatt
7.	1018	Workshop on Space Technology for School children (Note: There will be no registration, Interested can directly attend the lecture from <a href="https://www.youtube.com/user/edusat2004">https://www.youtube.com/user/edusat2004</a> )	August 12, 2021	½ Day	Ms. Shefali Agarwal/Ms. Pooja Jindal

S. No	Course number	Workshop Title	Tentative Time Slot	Duration	Focal Point
8.	1019	Geospatial Modeling Driven Urban Hazard and Risk Analysis	December 01, 2021	1 Day	Mr. Pramod Kumar

### **F. Popular Guest Talk Series on Space Technology and Application**

Topic, name of the speaker and actual date and time will be announced in First Week of the respective month in Year 2021

### **G. Specialized Course for Directorate of Forest Education, Dehradun**

**Course to be conducted, Afternoon Session (1430Hrs to 1600 Hrs)**

1.	Geo-informatics for Field Foresters *Course is only for Directorate of Forestry Education, Dehradun	February 22-26, 2021	1 Week	Dr. Hitendra Padalia/ Dr. Subrata Nandy
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Note: Geo-informatics for Field Foresters Course is applicable only for Directorate of Forest Education, Dehradun