



**Department of Space, Government of India
Indian Space Research Organisation (ISRO)
Indian Institute of Remote Sensing, Dehradun**



**42nd IIRS Outreach Programme on
“Principles of Polarimetric SAR Remote Sensing and its Processing”**

Feb 18, 2019 to March 01, 2019

Date & Time (hrs)	Days	Lecture Description	Faculty
18-02-2019 1530-1600	Monday	Overview of the Course	Mr. Shashi Kumar
18-02-2019 1600-1730		Overview of SAR Remote Sensing	
19-02-2019 1600-1730	Tuesday	SAR Systems and Image Acquisition Modes	Mr. Shashi Kumar
20-02-2019 1600-1730	Wednesday	Basic concept of Polarimetric SAR Remote Sensing	Mr. Shashi Kumar
21-02-2019 1600-1730	Thursday	Challenges in Polarimetric Decomposition Modelling based scattering retrieval of PolSAR data	Mr. Shashi Kumar
22-02-2019 1600-1730	Friday	Radiometric Calibration and Orthorectification/Terrain Correction of SAR & PolSAR Data	Mr. Shashi Kumar
25-02-2019 1600-1730	Monday	Hands-on/ practical exercise on PolSAR data Processing	Mr. Shashi Kumar
26-02-2019 1600-1730	Tuesday	Polarimetric Calibration of SAR Data	Mr. Shashi Kumar
27-02-2019 1530-1730	Wednesday	Polarimetric SAR Remote Sensing for Forestry Applications	Dr. Hitendra Padalia
		PolSAR Applications in Hydrology	Dr. Praveen K. Thakur
28-02-2019 1600-1730	Thursday	PolSAR based classification for Urban Mapping	Dr. Sandeep Maithani
		Agricultural applications of PolSAR	Dr. Dipanwita Haldar
01-03-2019 1600-1730	Friday	Polarimetric SAR Interferometry for characterization of manmade and natural features	Mr. Shashi Kumar