

*Tentative Time Table*

**Advance Course on “Microwave (SAR) Remote Sensing for Natural Resources”**

03<sup>rd</sup> February 2014 –29<sup>th</sup> March 2014

S. No.	Date & Time (hrs)	Days	Lecture Description	Lecture/ Practical	Faculty
1	03-02-2014 1600-1730	Monday	Introduction to Microwave Remote Sensing	L	Shashi Kumar
2	04-02-2014 1600-1730	Tuesday	Overview of SAR sensor and data	L	Ms. Shefali Agarwal
3	06-02-2014 1600-1730	Thursday	SAR Image Interpretation	P	Shashi Kumar
4	07-02-2014 1600-1730	Friday	SAR data Format	L	Shashi Kumar
5	10-02-2014 1600-1730	Monday	SAR data Format	P	Shashi Kumar
6	11-02-2014 1600-1730	Tuesday	SAR data processing	L	Shashi Kumar
7	13-02-2014 1600-1730	Thursday	Backscatter Image Generation	P	Shashi Kumar
8	14-02-2014 1600-1730	Friday	RISAT-1 data Processing	P	Shashi Kumar
9	17-02-2014 1600-1730	Monday	SAR Interferometry	L	Dr. R. S. Chatterjee
10	18-02-2014 1600-1730	Tuesday	SAR Interferometry	P	Shashi Kumar
11	20-02-2014 1600-1730	Thursday	Two pass and Three pass Differential Interferometry	L	Shashi Kumar
12	21-02-2014 1600-1730	Friday	Differential Interferometry for Landslide and Land Subsidence Monitoring	L	Dr. R. S. Chatterjee
13	24-02-2014 1600-1730	Monday	Coherence Image Generation	P	Shashi Kumar
14	25-02-2014 1600-1730	Tuesday	Basics of SAR Polarimetry	L	Shashi Kumar
15	03-03-2014 1600-1730	Monday	Advances in SAR Polarimetry	L	Shashi Kumar
16	04-03-2014 1600-1730	Tuesday	SAR Polarimetry	P	Shashi Kumar
17	06-03-2014 1600-1730	Thursday	PolSAR Decomposition	P	Shashi Kumar
18	07-03-2014 1600-1730	Friday	Microwave Remote Sensing in Soil Resource Characterization	L	Dr. S.K. Saha
19	10-03-2014 1600-1730	Monday	SAR data Analysis for Agricultural Applications	L	Ms. Mamta Kumari
20	11-03-2014 1600-1730	Tuesday	Soil Moisture Estimation using SAR data	L	Dr. Hari Shankar Srivastava
21	12-03-2014 1600-1730	Wednesday	Optimization of polarization and incidence angle configuration in soil moisture estimation in sloping terrain	L	Dr. Sameer Saran

<b>S. No.</b>	<b>Date &amp; Time (hrs)</b>	<b>Days</b>	<b>Lecture Description</b>	<b>Lecture/ Practical</b>	<b>Faculty</b>
22	13-03-2014 1600-1730	Thursday	Fusion of Hyperspectral and SAR data	L	Mr. Vinay Kumar
23	14-03-2014 1600-1730	Friday	Fusion of Hyperspectral and SAR data	P	Mr. Vinay Kumar
24	20-03-2014 1600-1730	Thursday	SAR Remote Sensing for Geological Applications	L	Dr. R. S. Chatterjee
25	21-03-2014 1600-1730	Friday	SAR Remote Sensing for Glaciological applications	L	Dr. Praveen K. Thakur
26	24-03-2014 1600-1730	Monday	SAR Remote Sensing for Forestry	L	Dr. S. P. S. Kushwaha
27	25-03-2014 1600-1730	Tuesday	SAR data Analysis for Coastal Applications	L	Dr. D. Mitra
28	26-03-2014 1600-1730	Wednesday	SAR data for Flood Mapping	L	Dr. S. P. Aggarwal
29	27-03-2014 1600-1730	Thursday	Wetland Mapping using SAR data	L	Dr. Hari Shankar Srivastava
30	28-03-2014 1600-1730	Friday	Scattering information retrieval using Chandrayaan-1 Mini-SAR data	L	Shashi Kumar
31	29-03-2014 1600-1730	Monday	Scattering information retrieval using Chandrayaan-1 Mini-SAR data	P	Shashi Kumar

L=Lecture, P=Practical