Course: Introduction to Remote Sensing

Course Code: noc19-ce08

Session: 2018-19

Duration: 4 Weeks

Assessment procedures: Weekly Assignment (25%) + proctored certification Exam (75%)

Curriculum of the Course:

Week 01 : What is satellite based remote sensing? | Development of remote sensing technology and advantages | Dierent platforms of remote sensing | EM spectrum, solar reection and thermal emission remote sensing | Interaction of EM radiation with atmosphere including atmospheric scattering, absorption and emission.

Week 02 : Interaction mechanisms of EM radiation with ground, spectral response curves | Principles of image interpretation | Multi-spectral scanners and imaging devices | Salient characteristics of LANDSAT, IRS, Cartosat, ResourceSat etc. sensors | Image characteristics and dierent resolutions in Remote Sensing.

Week 03 : Image interpretation of dierent geological landforms, rock types and structures | Remote Sensing integration with GIS and GPS | Georeferencing Technique | Basic image enhancement techniques | Spatial -ltering techniques.

Week 04 : Image classi-cation techniques | InSAR Technique and its applications | Hyperspectral Remote Sensing | Integrated applications of RS and GIS in groundwater studies | Limitations of Remote Sensing Technique.

List of students enrolled

S.no	Name
1	Deputy Birara
2	Divyaraj Joshi
3	Divyanshu Aditya
4	Muskan Bishnoi
5	Mustkim
6	Peeyush Meena
7	Pulkit Sharma
8	Mansi Dhaked
9	Ravi Kant Sahu
10	Riya Meena
11	Sakshi Sharma
12	Ashutosh Sompura
13	Tajinder Singh