

Course Content
Remote Sensing & Digital Image Analysis
16 August 2021 – 10 September 2021

Session 1 : 1430 to 1545 Indian Standard Time
Session 2 : 1600 to 1730 Indian Standard Time

Theory Lecture Sessions

Basic Principles of Remote Sensing , Earth Observation Sensors and Platforms , Spectral Signatures of Different Land cover Features and Visual Image interpretation, Thermal Remote Sensing, Hyperspectral Remote Sensing, Microwave Remote Sensing

Digital Image Processing: Basic Concepts Rectification and Registration , Image Enhancement techniques- Contrast, Filtering Transformations, Image Classification Techniques – Unsupervised, Supervised and Separability Analysis ,Digital Change Detection and Accuracy Assessment,

Introduction to GPS and GNSS, GPS Receivers, Processing ,Methods, Errors & Accuracy Satellite Based Augmentation Systems & GPS Aided & Geo Augmented Navigation (GAGAN), Indian Regional Navigation Satellite System (IRNSS)/NavIC ,

Introduction to GIS

Overview of RS and GIS Applications

Hands-on/Demonstration/Practical's

Introduction to RS data products , RS and Image Interpretation Practical , Digital data Browsing Image Processing hands on using ILWIS , GPS Demonstration , Image Processing using ERDAS Imagine