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Course Content
Geographical Information System
September 27, 2021-October 22, 2021

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Theory Lecture Sessions

Introduction to GIS , Geographic Phenomena, Concepts and examples ,Data Inputting and Editing in GIS ,GIS Data Models (Spatial and Non spatial), Map Projection Concepts & Use in RS & GIS, Spatial Analysis - Introductory Concepts and Overview ,Spatial Analysis - Functionality and Tools, Data Quality &Policies OGC, NSDI & GSDI initiatives. Discussion on Internet resources, Open Source Software Technology & Tools,

Introduction to Remote Sensing

An overview of Remote Sensing Applications

 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 ,

Advanced Geospatial Modeling , Uncertainty in GIS and Error Propagation ,3D GIS, City Models and Applications

Hands-on/Demonstration/Practical's

Visual Image Interpretation Demo of QGIS Software , GPS Demonstration