NPTEL Video Course - Civil Engineering - NOC:Remote Sensing and GIS for Rural Development

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Co-ordinating Institute - IIT - Bombay

Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable

Lecture 30 - Extracting polygon features from georeferenced data
Lecture 31 - Creating shapefiles from georefrenced maps
Lecture 32 - Google Earth Pro introduction for extracting data
Lecture 33 - Ground Control points from Google Earth Pro and Basemaps
Lecture 34 - Digital Elevation models and sources
Lecture 35 - Digital Elevation models (hands on example)
Lecture 36 - Introduction to Land Use Land Cover
Lecture 37 - Data for LULC and proxy data
Lecture 38 - Analyzing Bhuvan LULC data - Part 1
Lecture 39 - Analyzing Bhuvan LULC data - Part 2
Lecture 40 - Analyzing USGS LULC data
Lecture 41 - Different types of LULC classifications
Lecture 42 - Different types of LULC classifications
Lecture 43 - Remote Sensing for irrigation assessments
Lecture 44 - Remote Sensing for Groundwater irrigation assessments
Lecture 45 - Methods for Crop Statistics using Remote Sensing data
Lecture 46 - Remote Sensing based indicators for rural development
Lecture 47 - Remote Sensing methods for crop area and health assessments
Lecture 48 - NDVI data access
Lecture 49 - NDVI data from NASA platforms
Lecture 50 - NDVI data from Sentinel and NASA platforms
Lecture 51 - Remote Sensing based indicators database
Lecture 52 - Synergized mapping using Remote Sensing and Crowd Sourced data for rural infrastructures
Lecture 53 - RS and OSM for mapping rural infrastructures: Schools
Lecture 54 - RS and OSM for mapping rural infrastructures: Hospitals
Lecture 55 - RS and OSM for mapping rural infrastructures: Adding data, crops and water bodies
Lecture 56 - RS and GIS application for Rural Development: Moniotring and Evaluation
Lecture 57 - RS and GIS application for Rural Development: Monitoring and Evaluation using NDVI and NDWI
Lecture 58 - RS and GIS application for Rural Development: Water Quality Assessment
Lecture 59 - RS and GIS application for Rural Development: Indicators and Dashboards
Lecture 60 - RS and GIS for Rural Development - Summary, Wrap and Ways Forward