

NPTEL Video Lecture Topic List - Created by LinuXpert Systems, Chennai

NPTEL Video Course - Civil Engineering - Modern Surveying Techniques

Subject Co-ordinator - Prof. S.K. Ghosh

Co-ordinating Institute - IIT - Roorkee

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

- Lecture 1 - Geographic Information System An Introduction
- Lecture 2 - Introduction to Global Positioning System
- Lecture 3 - GPS Positioning Methods
- Lecture 4 - GPS Solutions and Errors
- Lecture 5 - GPS Application
- Lecture 6 - Remote Sensing Introduction
- Lecture 7 - Electromagnetic Spectrum
- Lecture 8 - Sensors and Platform
- Lecture 9 - Sensors and Platform
- Lecture 10 - Image Interpretation
- Lecture 11 - Statistical Evaluation of RS Data
- Lecture 12 - Rectification and Restoration
- Lecture 13 - Image Enhancement
- Lecture 14 - Image Transformation
- Lecture 15 - Orthogonal Transformation
- Lecture 16 - Image Classification (Supervised Classification)
- Lecture 17 - Image Classification (Unsupervised Classification)
- Lecture 18 - Spatial Filtering-Noise Removal
- Lecture 19 - Spatial Filtering-Edge Removal
- Lecture 20 - Photogramatic-Basic concepts of a single photography
- Lecture 21 - Stereoscopy-Basic concepts
- Lecture 22 - Stereoscopy-Geometry of overlapping photograph
- Lecture 23 - Terrestrial Photogrammetry
- Lecture 24 - Digital Elevation Model-Basic Concepts
- Lecture 25 - Digital Elevation Model-Data Input and Stamping
- Lecture 26 - Digital Elevation Model-Surface representation and analysis
- Lecture 27 - GIS-Introductory Concepts
- Lecture 28 - GIS-Data Input
- Lecture 29 - Data Verification and Editing

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- Lecture 30 - GIS Data Model
- Lecture 31 - GIS Data Base
- Lecture 32 - Spatial Analysis
- Lecture 33 - Map Overlay and Spatial Correlation
- Lecture 34 - Application to Drought Management
- Lecture 35 - GIS base planning model for educational facilities in rural areas
- Lecture 36 - Application extraction of building attributes
- Lecture 37 - Zonal based tourism planning
- Lecture 38 - Zonal Planning using remote sensing
- Lecture 39 - Municipal GIS for assessment of property tax
- Lecture 40 - Application of remote sensing