

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

NPTEL Video Course - Civil Engineering - NOC:Geo Spatial Analysis in Urban Planning

Subject Co-ordinator - Prof. Saikat Kumar Paul

Co-ordinating Institute - IIT - Kharagpur

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

- Lecture 1 - Introduction to Geographic Information System
- Lecture 2 - Introduction to Coordinate System and Geographic Projections
- Lecture 3 - Geometric Transformation
- Lecture 4 - Vector Data Model
- Lecture 5 - Raster Data Model
- Lecture 6 - Method of Spatial Analysis
- Lecture 7 - Vector Data Analysis
- Lecture 8 - Vector Data Analysis (Continued...)
- Lecture 9 - Raster Data Analysis
- Lecture 10 - Raster Operations, Terrain Visualization and Classification
- Lecture 11 - Attribute Data Management and Data Exploration
- Lecture 12 - Spatial Interpolation
- Lecture 13 - Spatial Interpolation
- Lecture 14 - Network Analysis
- Lecture 15 - Service or Trade Area Analysis in an Urban Area
- Lecture 16 - Service or Trade Area Analysis in an Urban Area (Continued...)
- Lecture 17 - Landscape metrics and its applications
- Lecture 18 - Urban sprawl characterization using Landscape Metrics
- Lecture 19 - Multi-Criteria Decision Analysis