

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

NPTEL Video Course - Engineering Design - NOC:Geographic Information System

Subject Co-ordinator - Prof. Bharath H Aithal

Co-ordinating Institute - IIT - Kharagpur

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

- Lecture 1 - Introduction to GIS
- Lecture 2 - Introduction (Continued...)
- Lecture 3 - Introduction (Continued...)
- Lecture 4 - Introduction (Continued...)
- Lecture 5 - Introduction (Continued...)
- Lecture 6 - Real World to Digital World Through GIS
- Lecture 7 - Real World to Digital World Through GIS (Continued...)
- Lecture 8 - Real World to Digital World Through GIS (Continued...)
- Lecture 9 - GIS Data (Continued...)
- Lecture 10 - Real World to Digital World Through GIS (Continued...)
- Lecture 11 - Representing the Real World
- Lecture 12 - Representing the Real World (Continued...)
- Lecture 13 - Representing the Real World (Continued...)
- Lecture 14 - Representing the Real World in Surface Models (Continued...)
- Lecture 15 - Representing the Real World (Continued...)
- Lecture 16 - Quering and Georeferencing
- Lecture 17 - Elevation, Relative and Discrete Referencing
- Lecture 18 - Coordinate Systems
- Lecture 19 - Maps and Numbering
- Lecture 20 - Map Projections
- Lecture 21 - Data Quality and Measures
- Lecture 22 - Positional Accuracy and Source of Errors
- Lecture 23 - Classification Accuracy and Pixel Errors
- Lecture 24 - Spatial Data Editing and Transformations
- Lecture 25 - Map Display and Visualization in GIS
- Lecture 26 - Introduction to GPS
- Lecture 27 - GPS
- Lecture 28 - GPS errors and DGPS
- Lecture 29 - GNSS and Applications

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- Lecture 30 - Introduction to QGIS
- Lecture 31 - Introduction to database
- Lecture 32 - DataBase Management System - Introduction
- Lecture 33 - DataBase Management System - (Continued...)
- Lecture 34 - DBMS models
- Lecture 35 - Normalization forms
- Lecture 36 - Creating and Maintaining a database
- Lecture 37 - Spatial Query using SQL - Introduction
- Lecture 38 - Spatial analysis
- Lecture 39 - Spatial analysis (Continued...)
- Lecture 40 - Basic Editing
- Lecture 41 - Introduction to Remote Sensing
- Lecture 42 - Basic spatial analysis
- Lecture 43 - Basic spatial analysis
- Lecture 44 - Advanced spatial analysis
- Lecture 45 - Advanced spatial analysis
- Lecture 46 - Introduction to QGIS and Data Import
- Lecture 47 - QGIS Plugins
- Lecture 48 - Georeferencing an Image
- Lecture 49 - Creating Vector Features
- Lecture 50 - Vector Functions and Querying
- Lecture 51 - Data Acquisition and Raster Functions - I
- Lecture 52 - Data Acquisition and Raster Functions - II
- Lecture 53 - Map composition
- Lecture 54 - Bhuvan geoportal and Google earth
- Lecture 55 - Introduction to R - Part I
- Lecture 56 - Introduction to R - Part II
- Lecture 57 - Open Source GIS Softwares
- Lecture 58 - Open Source GIS softwares
- Lecture 59 - PROS and CONS of open source
- Lecture 60 - GIS Data Standards
- Lecture 61 - Open Geospatial Consortium (OGC)
- Lecture 62 - National Spatial Data Infrastructure (NSDI)
- Lecture 63 - Introduction to Web GIS and Geoserver
- Lecture 64 - Geoserver - Raster and SLD Integration