

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

NPTEL Video Course - Civil Engineering - NOC:Urban Transport Systems Planning

Subject Co-ordinator - Prof. Bhargab Maitra

Co-ordinating Institute - IIT - Kharagpur

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

- Lecture 1 - Urbanization, Urban Transportation and Transportation Demand
- Lecture 2 - Travel Behaviour, Transportation Externalities and Present Scenario of Urban Transportation
- Lecture 3 - Approaches for Mitigating Externalities, Need for Transportation Planning and Transport Planning
- Lecture 4 - Transport Planning Morphology
- Lecture 5 - Hierarchical Level of Urban Transport Planning and Interrelationship of Transport Problems and Mo
- Lecture 6 - Traditional Travel Demand Forecasting Process
- Lecture 7 - Traditional Travel Demand Forecasting Process, Specification, Calibration, Validation and Forecas
- Lecture 8 - Information Needs for Travel Demand Forecasting: Study Area, Urban Activities, Transportation Sys
- Lecture 9 - Information Needs for Travel Demand Forecasting: Travel Information
- Lecture 10 - Data Collection and Techniques
- Lecture 11 - Introduction and Basic Considerations of Trip Generation
- Lecture 12 - Trip Classifications and Factors Affecting Trip Generation
- Lecture 13 - Modelling Approaches and Step-Wise Approach of Multiple Regression Analysis
- Lecture 14 - Step-Wise Approach of Multiple Regression Analysis and Examples
- Lecture 15 - Examples, Common Mistakes and Zonal Based Models of Multiple Regression Analysis
- Lecture 16 - Zonal and Household Based Regression Models
- Lecture 17 - Cross Classification Analysis: Model Structure and Calibration
- Lecture 18 - Cross Classification Analysis: Model Calibration
- Lecture 19 - Cross Classification Analysis: Model Application, Advantages and Dis-Advantages
- Lecture 20 - Matching Productions and Attractions; Stability of Trip Generation Models
- Lecture 21 - Basic Considerations and Trip Distribution Matrices
- Lecture 22 - Methods for Trip Distribution, Uniform Growth Factor Method and Average Growth Factor Method
- Lecture 23 - Detroit Method and Fratar Model
- Lecture 24 - Furness Method
- Lecture 25 - Synthetic Methods, Measures of Travel Resistance and Gravity Model
- Lecture 26 - Singly Constrained Gravity Model
- Lecture 27 - Bureau of Public Roads Calibration Procedure
- Lecture 28 - Doubly Constrained Gravity Model
- Lecture 29 - Intervening Opportunities Model

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

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- Lecture 30 - Competing Opportunities Model and Linear Programming Approach
- Lecture 31 - Factors Influencing Mode Choice and Aggregate Modal Split Models
- Lecture 32 - Disaggregate Mode Choice Models - I
- Lecture 33 - Disaggregate Mode Choice Models - II
- Lecture 34 - Disaggregate Mode Choice Models - III
- Lecture 35 - Disaggregate Mode Choice Models - IV
- Lecture 36 - Disaggregate Mode Choice Models - V
- Lecture 37 - Logit Choice Models - I
- Lecture 38 - Logit Choice Models - II
- Lecture 39 - Logit Choice Models - III
- Lecture 40 - Logit Choice Models - IV
- Lecture 41 - Introduction to Traffic Assignment
- Lecture 42 - Network Algorithms - I
- Lecture 43 - Network Algorithms - II
- Lecture 44 - Network Algorithms - III
- Lecture 45 - Static assignment models, User Equilibrium
- Lecture 46 - User Equilibrium Assignment and System Optimum Assignment
- Lecture 47 - Deterministic Traffic Assignment - I
- Lecture 48 - Deterministic Traffic Assignment - II
- Lecture 49 - Stochastic Traffic Assignment - I
- Lecture 50 - Stochastic Traffic Assignment - II and Dynamic Traffic Assignment
- Lecture 51 - Land Use and Transportation - I
- Lecture 52 - Land Use and Transportation - II
- Lecture 53 - Land Use and Transportation - III
- Lecture 54 - Land Use and Transportation - IV
- Lecture 55 - Urban Goods Movement - I
- Lecture 56 - Urban Goods Movement - II
- Lecture 57 - Urban Goods Movement - III
- Lecture 58 - Urban Goods Movement - IV
- Lecture 59 - Activity Based Modelling
- Lecture 60 - Big Data, GIS and SDI