

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

NPTEL Video Course - Architecture - NOC:Urban Landuse and Transportation Planning

Subject Co-ordinator - Prof. Debapratim Pandit

Co-ordinating Institute - IIT - Kharagpur

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

Lecture 1 - Introduction to Landuse transportation planning
Lecture 2 - Plans and planning process
Lecture 3 - Urban landuse planning
Lecture 4 - Comprehensive mobility plan
Lecture 5 - Landuse transport interaction
Lecture 6 - Theoretical foundations - Part 1
Lecture 7 - Theoretical foundations - Part 2
Lecture 8 - Modeling approaches
Lecture 9 - Existing integrated land use transportation models
Lecture 10 - Land use transportation model components and future challenges
Lecture 11 - Sampling Theory - 1
Lecture 12 - Sampling Theory - 2
Lecture 13 - Data and Surveys
Lecture 14 - Transport Planning surveys - Part 1
Lecture 15 - Transport Planning surveys - Part 2
Lecture 16 - Demographic Transition
Lecture 17 - Demographic Models - 1
Lecture 18 - Demographic Models - 2
Lecture 19 - Microsimulation and Population Synthesis - 1
Lecture 20 - Microsimulation and Population Synthesis - 2
Lecture 21 - Urban Growth Assessment
Lecture 22 - Urban land suitability assessment
Lecture 23 - Accessibility - 1
Lecture 24 - Accessibility - 2
Lecture 25 - Land Price Model
Lecture 26 - Discrete choice theory
Lecture 27 - Residential mobility and location choice - 1
Lecture 28 - Residential mobility model using binary logistic regression
Lecture 29 - Residential mobility and location choice - 2

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- Lecture 30 - Residential location choice model using multinomial logistic regression
- Lecture 31 - Travel demand forecasting and Trip generation
- Lecture 32 - Multiple linear regression
- Lecture 33 - Trip Production and Attraction - 1
- Lecture 34 - Trip Production and Attraction - 2
- Lecture 35 - Trip distribution
- Lecture 36 - Mode choice theory
- Lecture 37 - Mode choice model
- Lecture 38 - Hybrid mode choice model - 1 (Factor Analysis)
- Lecture 39 - Hybrid mode choice model - 2 (Joint RP SP model)
- Lecture 40 - Nested logit model
- Lecture 41 - Introduction to Trip Assignment
- Lecture 42 - Route Choice
- Lecture 43 - Link assignment - 1
- Lecture 44 - Link assignment - 2
- Lecture 45 - Dynamic traffic assignment
- Lecture 46 - Transportation Software
- Lecture 47 - CUBE Overview
- Lecture 48 - Travel demand modelling using CUBE and VISUM
- Lecture 49 - Activity based modelling in CUBE
- Lecture 50 - Vehicular emission and pollution modelling
- Lecture 51 - Urban Freight Planning
- Lecture 52 - Urban Freight Planning
- Lecture 53 - Urban Freight Planning
- Lecture 54 - Last Mile Logistics - 1
- Lecture 55 - Last Mile Logistics - 2
- Lecture 56 - Employment location choice and Real estate Development location choice
- Lecture 57 - Activity based model - 1
- Lecture 58 - Activity based model - 2
- Lecture 59 - Mode choice using Machine Learning
- Lecture 60 - Shared Mobility