

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

NPTEL Video Course - Civil Engineering - NOC:Traffic Engineering

Subject Co-ordinator - Prof. Bhargab Maitra

Co-ordinating Institute - IIT - Kharagpur

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

- Lecture 1 - Traffic Engineering Objectives and Role of Transportation Demand and Land-Use
- Lecture 2 - Mobility and Accessibility, Traffic Engineering Elements and Components of Traffic
- Lecture 3 - Road Users
- Lecture 4 - Vehicles, Roadways and Traffic Control Devices
- Lecture 5 - Traffic Signs, Delineators and Signals
- Lecture 6 - Traffic Facilities and Traffic Stream Parameters
- Lecture 7 - Traffic Volumes and Time Headways
- Lecture 8 - Traffic Density and Relationships among Macroscopic Parameters
- Lecture 9 - Single Regime Traffic Stream Models
- Lecture 10 - Multi-Regime Models and Characteristics of Interrupted Flow
- Lecture 11 - Analysis of Shock Waves - I
- Lecture 12 - Analysis of Shock Waves - II
- Lecture 13 - Analysis of Shock Waves - III
- Lecture 14 - Queueing Analysis - I
- Lecture 15 - Queueing Analysis - II
- Lecture 16 - Basic Concepts
- Lecture 17 - Analysis of Basic Freeway and Multi-Lane Highway Segments (as per HCM, 2016) - I
- Lecture 18 - Analysis of Basic Freeway and Multi-Lane Highway Segments (as per HCM, 2016) - II
- Lecture 19 - Analysis of Basic Freeway and Multi-Lane Highway Segments (As per HCM, 2016) - III
- Lecture 20 - Analysis of Two-Lane Highway Segments (As per HCM, 2016) - I
- Lecture 21 - Analysis of Two-Lane Highway Segments (As per HCM, 2016) - II
- Lecture 22 - Analysis of Urban street Segments (As per HCM, 2016) - I
- Lecture 23 - Analysis of Urban street Segments (As per HCM, 2016) - II
- Lecture 24 - Analysis of Urban street Segments (As per HCM, 2016) - III
- Lecture 25 - Analysis of Single, Intermediate and Two-Lane Roads (As per Indo HCM, 2017)
- Lecture 26 - Analysis of Multi Lane Highways (As per Indo HCM, 2017)
- Lecture 27 - Intersection Control and Critical Aspects of Operation - I
- Lecture 28 - Intersection Control and Critical Aspects of Operation - II
- Lecture 29 - Intersection Control and Critical Aspects of Operation - III

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- Lecture 30 - Intersection Control and Critical Aspects of Operation - IV
- Lecture 31 - Intersection Control and Critical Aspects of Operation - V
- Lecture 32 - Delay as a Performance Measure
- Lecture 33 - Pre-Timed Signal Design - I
- Lecture 34 - Pre-Timed Signal Design - II
- Lecture 35 - Operational Analysis of Signalized Intersection - I
- Lecture 36 - Operational Analysis of Signalized Intersection - II
- Lecture 37 - Operational Analysis of Signalized Intersection - III
- Lecture 38 - Operational Analysis of Signalized Intersection - IV
- Lecture 39 - Actuated Signals
- Lecture 40 - Signal Coordination - I
- Lecture 41 - Signal Coordination - II
- Lecture 42 - Signal Coordination - III
- Lecture 43 - Oversaturated Signals and Mitigation Strategies
- Lecture 44 - Car Following Theory - I
- Lecture 45 - Car Following Theory - II
- Lecture 46 - Car Following Theory - III
- Lecture 47 - Car Following Theory - IV
- Lecture 48 - Traffic Simulation - I
- Lecture 49 - Traffic Simulation - II
- Lecture 50 - Traffic Simulation - III
- Lecture 51 - Introduction to Traffic Control and Management
- Lecture 52 - Access Management
- Lecture 53 - Demand Management
- Lecture 54 - Bus Priority Treatments
- Lecture 55 - Emerging Traffic Management Measures
- Lecture 56 - Parking Management - I
- Lecture 57 - Parking Management - II
- Lecture 58 - Parking Management - III
- Lecture 59 - Introduction to Road Safety
- Lecture 60 - Road Safety Engineering and Crash Data
- Lecture 61 - Blackspot Analysis
- Lecture 62 - Crash Data Analysis
- Lecture 63 - Road Safety Audit
- Lecture 64 - Safe System Approach
- Lecture 65 - Road Safety Countermeasures
- Lecture 66 - Speed Management Measures