

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

NPTEL Video Course - Civil Engineering - NOC:Sustainable Transportation systems

Subject Co-ordinator - Prof. Bhola Ram Gurjar

Co-ordinating Institute - IIT - Roorkee

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

Lecture 1 - Introduction to Transportation Systems - I  
Lecture 2 - Introduction to Transportation Systems - II  
Lecture 3 - Concept of Sustainability  
Lecture 4 - Current Scenario of Transportation in India  
Lecture 5 - Climate Change: Indicators and Impacts  
Lecture 6 - Impacts of Transportation Systems - I  
Lecture 7 - Impacts of Transportation Systems - II  
Lecture 8 - Impacts of Transportation Systems - III  
Lecture 9 - Impacts of Transportation Systems - IV  
Lecture 10 - Impacts of Transportation Systems - V  
Lecture 11 - Introduction to Environment Impact Assessment (EIA)  
Lecture 12 - EIA Processes - I  
Lecture 13 - EIA Processes - II  
Lecture 14 - Methodologies of EIA  
Lecture 15 - EIA Process in India  
Lecture 16 - Global practices in EIA process  
Lecture 17 - EIA Case Study - I  
Lecture 18 - EIA Case Study - II  
Lecture 19 - EIA Case Study - III  
Lecture 20 - EIA Case Study - IV  
Lecture 21 - EIA Case Study - V  
Lecture 22 - Introduction of Land use  
Lecture 23 - Land use Planning and Zoning  
Lecture 24 - Transit Oriented Development (TOD)  
Lecture 25 - TOD Implementation  
Lecture 26 - TOD Case study-I: Section of Delhi Metro  
Lecture 27 - TOD Case study-II: TOD planning for Belgrade, Serbia  
Lecture 28 - TOD Case study-III: Naya Raipur  
Lecture 29 - Introduction to Sustainable Transport Planning

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

- Lecture 30 - Sustainable Transport Planning and Approaches-I: The Traditional Transport Planning Process
- Lecture 31 - Sustainable Transport Planning and Approaches-II: The Contemporary Planning Process
- Lecture 32 - Sustainable Transport Planning and Approaches-III: Management Strategies
- Lecture 33 - Life Cycle Assessment (LCA): An Introduction
- Lecture 34 - Life Cycle Assessment: Theory and Practice
- Lecture 35 - LCA Case Study
- Lecture 36 - Material Flow Analysis (MFA)
- Lecture 37 - Material Flow Analysis: Case Study
- Lecture 38 - Concept of Circular Economy
- Lecture 39 - Circular Economy in Transport Sector
- Lecture 40 - Modelling of Transport Emissions - I
- Lecture 41 - Modelling of Transport Emissions - II
- Lecture 42 - Dispersion Models for Transport Emissions
- Lecture 43 - Traffic Noise Emission Models
- Lecture 44 - Initiatives and Policies for Environmental Sustainability
- Lecture 45 - National Clean Air Programme and Transport Sector
- Lecture 46 - Decarbonizing the Transport Sector
- Lecture 47 - Alternate Fuels and Sustainable Transportation
- Lecture 48 - Electric Vehicles and Sustainability
- Lecture 49 - Emerging Transport Technology - Hyperloop
- Lecture 50 - Case Study-I: Bus Rapid Transit System (BRTS)
- Lecture 51 - Case Study-II: Mass Rapid Transit (MRT) Systems
- Lecture 52 - Case Study-III: Sustainability in Airports
- Lecture 53 - Case Study-IV: Sustainable Water Transport
- Lecture 54 - Case Study-V: Non-Motorized Transport (NMT)
- Lecture 55 - openLCA - An LCA Tool
- Lecture 56 - openLCA Application - Case Study
- Lecture 57 - Material Flow Analysis Tool - STAN
- Lecture 58 - Sustainability Indicators
- Lecture 59 - Sustainable Transport Appraisal Rating (STAR)
- Lecture 60 - Measuring Sustainability