

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

NPTEL Video Course - Civil Engineering - NOC:Analysis and Design of Bituminous Pavements

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Co-ordinating Institute - IIT - Madras

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

- Lecture 1 - Pavement Cross-sections and Pavement Design Process
- Lecture 2 - Pavement Design Factors - I
- Lecture 3 - Pavement Design Factors - II
- Lecture 4 - Stresses and Strains in Bituminous Pavements - I
- Lecture 5 - Stresses and Strains in Bituminous Pavements - II
- Lecture 6 - Numerical Problems in One-layer Theory
- Lecture 7 - Numerical Problems in Two-layer Theory
- Lecture 8 - Introduction to KENLAYER
- Lecture 9 - KENLAYER - 1
- Lecture 10 - KENLAYER - 2
- Lecture 11 - KENLAYER - 3
- Lecture 12 - KENLAYER - 4
- Lecture 13 - Traffic Analysis - ESWL - Part 1
- Lecture 14 - Traffic Analysis - ESWL - Part 2
- Lecture 15 - Traffic Analysis - EALF
- Lecture 16 - Traffic Analysis - ESAL using VDF
- Lecture 17 - Traffic Analysis - ESAL using TF
- Lecture 18 - Traffic Analysis - Examples
- Lecture 19 - Traffic Analysis - Load Spectra Factor
- Lecture 20 - Modulus for Design - CBR
- Lecture 21 - Modulus for Design - Resilient modulus (Granular material)
- Lecture 22 - Modulus for Design - Resilient modulus (Bituminous material)
- Lecture 23 - Modulus for Design - Dynamic Modulus
- Lecture 24 - Environmental Effect - Part 1
- Lecture 25 - Environmental Effect - Part 2
- Lecture 26 - Environmental Effect - Part 3
- Lecture 27 - Environmental Effect - Part 4
- Lecture 28 - Enhanced Integrated Climatic Model - Part 1
- Lecture 29 - Enhanced Integrated Climatic Model - Part 2

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- Lecture 30 - Climate Consideration in Design Procedures
- Lecture 31 - Reliability in Pavement Design - Part 1
- Lecture 32 - Reliability in Pavement Design - Part 2
- Lecture 33 - Reliability in Pavement Design - Part 3
- Lecture 34 - Reliability in Pavement Design - Part 4
- Lecture 35 - Reliability in Pavement Design - Part 5
- Lecture 36 - Reliability in Pavement Design - Part 6
- Lecture 37 - Distress Transfer Function - Fatigue Cracking
- Lecture 38 - Rutting and Low-Temperature Cracking
- Lecture 39 - KENLAYER - Nonlinear Analysis
- Lecture 40 - KENLAYER - Damage Analysis
- Lecture 41 - IRC design steps
- Lecture 42 - Design Input and IITPAVE software
- Lecture 43 - Pavement design with granular base
- Lecture 44 - Pavement design with CTB
- Lecture 45 - Pavement design with RAP Base
- Lecture 46 - Overview of Mechanistic-Empirical Pavement Design Methods - IRC
- Lecture 47 - Overview of Mechanistic-Empirical Pavement Design Methods - South Africa - Part I
- Lecture 48 - Overview of Mechanistic-Empirical Pavement Design Methods - South Africa - Part II
- Lecture 49 - Overview of Mechanistic-Empirical Pavement Design Methods - South Africa - Part III
- Lecture 50 - Overview of Mechanistic-Empirical Pavement Design Methods - Australia - Part I
- Lecture 51 - Overview of Mechanistic-Empirical Pavement Design Methods - Australia - Part II
- Lecture 52 - Overview of Mechanistic-Empirical Pavement Design Methods - AASHTO - Part I
- Lecture 53 - Overview of Mechanistic-Empirical Pavement Design Methods - AASHTO - Part II
- Lecture 54 - Summary of the course and design projects