

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

NPTEL Video Course - Civil Engineering - NOC:Pavement Materials (Under Pavement Engineering)

Subject Co-ordinator - Prof. Nikhil Saboo

Co-ordinating Institute - IIT - Roorkee

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

- Lecture 1 - Introduction to Soil as a Highway Material
- Lecture 2 - Particle Size Distribution - Part 1
- Lecture 3 - Particle Size Distribution - Part 2
- Lecture 4 - Consistency Limits and Classification of Soils - Part 1
- Lecture 5 - Consistency Limits and Classification of Soils - Part 2
- Lecture 6 - Strength Properties of Soil - Part 1
- Lecture 7 - Strength Properties of Soil - Part 2
- Lecture 8 - Strength Properties of Soil - Part 3
- Lecture 9 - Strength Properties of Soil - Part 4
- Lecture 10 - Expansive Soils and Stabilization Techniques
- Lecture 11 - Introduction to Mineral Aggregates: Origin and Types
- Lecture 12 - Production and Storage of Aggregates
- Lecture 13 - Classification and Gradation of Aggregates - Part 1
- Lecture 14 - Classification and Gradation of Aggregates - Part 2
- Lecture 15 - Mineralogy of Aggregates and its Importance
- Lecture 16 - Aggregates Shape and Surface Texture
- Lecture 17 - Aggregate Properties - Part 1
- Lecture 18 - Aggregate Properties - Part 2
- Lecture 19 - Aggregate Properties - Part 3
- Lecture 20 - Aggregate Properties - Part 4
- Lecture 21 - Bitumen Basics
- Lecture 22 - Chemistry of Bitumen
- Lecture 23 - Physical Properties of Bitumen - Part 1
- Lecture 24 - Physical Properties of Bitumen - Part 2
- Lecture 25 - Physical Properties of Bitumen - Part 3
- Lecture 26 - Introduction to Viscoelasticity
- Lecture 27 - Rheological Properties of Bitumen - Part 1
- Lecture 28 - Rheological Properties of Bitumen - Part 2
- Lecture 29 - Grading of Bitumen - Part 1

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- Lecture 30 - Grading of Bitumen - Part 2
- Lecture 31 - Modified Bitumen
- Lecture 32 - Bitumen Emulsion
- Lecture 33 - Production of Bituminous Mixtures
- Lecture 34 - Role and Desirable Properties: Mix Design
- Lecture 35 - Volumetrics in Mix Design - Part 1
- Lecture 36 - Volumetrics in Mix Design - Part 2
- Lecture 37 - Volumetrics in Mix Design - Part 3
- Lecture 38 - Volumetrics in Mix Design - Part 4
- Lecture 39 - Volumetrics in Mix Design - Part 5
- Lecture 40 - Marshall and Superpave Mix Design - Part 1
- Lecture 41 - Marshall and Superpave Mix Design - Part 2
- Lecture 42 - Hot Recycled Mixtures - Part 1
- Lecture 43 - Hot Recycled Mixtures - Part 2
- Lecture 44 - Hot Recycled Mixtures - Part 3
- Lecture 45 - Cold Bituminous Mixtures
- Lecture 46 - Performance Based Mix Design Concepts
- Lecture 47 - Characterization of Bituminous Mixtures - Part 1
- Lecture 48 - Characterization of Bituminous Mixtures - Part 2
- Lecture 49 - Cementitious Materials - Part 1
- Lecture 50 - Cementitious Materials - Part 2
- Lecture 51 - Types of Cement, Admixtures, Geopolymers - Part 1
- Lecture 52 - Types of Cement, Admixtures, Geopolymers - Part 2
- Lecture 53 - Mix Design of PQC - IRC 44
- Lecture 54 - Mix Design of PQC - Examples - Part 1
- Lecture 55 - Mix Design of PQC - Examples - Part 2
- Lecture 56 - Mix Design of DLC - IRC SP 49
- Lecture 57 - Mix Design of Pervious Concrete - Part 1
- Lecture 58 - Mix Design of Pervious Concrete - Part 2
- Lecture 59 - Overview of Alternate Pavement Materials - Part 1
- Lecture 60 - Overview of Alternate Pavement Materials - Part 2