

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

NPTEL Video Course - Civil Engineering - NOC:Environmental Geotechnics

Subject Co-ordinator - Prof. Devendra Narain Singh

Co-ordinating Institute - IIT - Bombay

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

Lecture 1 - Overview - 1
Lecture 2 - Overview - 2
Lecture 3 - Overview - 3
Lecture 4 - Civil Engineering
Lecture 5 - Recent Trends in civil engineering
Lecture 6 - Recent Trends and Subject organization
Lecture 7 - Civil Engineering and Soil Mechanics
Lecture 8 - Soil mechanics
Lecture 9 - Recent Trends in Soil mechanics
Lecture 10 - Soil contamination
Lecture 11 - Soil Improvement and wastes
Lecture 12 - Contaminant transport in soils
Lecture 13 - Soil- water- Environment Interaction
Lecture 14 - Basic concepts of analysis
Lecture 15 - Particle Energy Field Theory
Lecture 16 - Waste and types
Lecture 17 - Municipal and Industrial solid waste
Lecture 18 - Industrial non-hazardous and Hazardous wastes
Lecture 19 - Application of Industrial by-products
Lecture 20 - Introduction to Characterization of waste
Lecture 21 - Geomaterial characterization - 1
Lecture 22 - Geomaterial characterization - 2 (Morphological and physical characterization)
Lecture 23 - Geomaterial characterization - 3 (Chemical characterization)
Lecture 24 - Geomaterial characterization - 4 (Mercury Intrusive Porosimeter)
Lecture 25 - Geomaterial characterization - 5 (Specific Surface Area - I)
Lecture 26 - Geomaterial characterization - 6 (Specific surface area - II)
Lecture 27 - Geomaterial characterization - 7
Lecture 28 - Geomaterial characterization - 8 (Pore solution studies - I)
Lecture 29 - Geomaterial characterization - 9 (Pore solution studies - II)

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Lecture 30 - Geomaterial characterization - 10 (Assessing soil contamination)
Lecture 31 - Geomaterial characterization - 11
Lecture 32 - Contaminant transport through porous media - 1
Lecture 33 - Contaminant transport through porous media - 2
Lecture 34 - Contaminant transport through porous media - 3
Lecture 35 - Contaminant transport through porous media - 4
Lecture 36 - Contaminant transport through porous media - 5
Lecture 37 - Sorption and Desorption characteristics of geomaterials - 1
Lecture 38 - Sorption and Desorption characteristics of geomaterials - 2
Lecture 39 - Sorption and Desorption characteristics of geomaterials - 3
Lecture 40 - Thermal Characterisation - 1
Lecture 41 - Thermal characterization - 2
Lecture 42 - Thermal characterisation - 3
Lecture 43 - Electrical characterization - 1
Lecture 44 - Electrical characterization - 2
Lecture 45 - Electrical characterization - 3
Lecture 46 - Electrical characterization - 4
Lecture 47 - Electrical characterization - 5
Lecture 48 - Swelling, shrinkage and cracking characteristics of soil - 1
Lecture 49 - Swelling, shrinkage and cracking characteristics of soil - 2
Lecture 50 - Swelling, shrinkage and cracking characteristics of soil - 3
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