

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

NPTEL Video Course - Civil Engineering - NOC:Geotechnical Engineering - 1

Subject Co-ordinator - Prof. Devendra Narain Singh

Co-ordinating Institute - IIT - Bombay

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

- Lecture 1 - Introduction
- Lecture 2 - Origin and Definition of Soils
- Lecture 3 - Classification of Soils - I
- Lecture 4 - Classification of Soils - II
- Lecture 5 - Classification of Soils - III and Challenging Situations
- Lecture 6 - Soil constituents - I
- Lecture 7 - Soil constituents - II
- Lecture 8 - Particulate Nature of the Soils
- Lecture 9 - Soil Aggregate and Phase Relations
- Lecture 10 - Classification of Soils and Sieve Analysis
- Lecture 11 - Particle Size Analysis of Finegrained Soils
- Lecture 12 - Soil-water Interaction - I
- Lecture 13 - Soil-water Interaction - II
- Lecture 14 - Compaction Characteristics of Soil - I
- Lecture 15 - Compaction Characteristics of Soil - II
- Lecture 16 - Permeability of Soil and Ground Water Flow - I
- Lecture 17 - Permeability of Soil and Ground Water Flow - II
- Lecture 18 - Coefficient of Permeability
- Lecture 19 - Seepage Theory
- Lecture 20 - Applications of Seepage Theory
- Lecture 21 - Flow Net in the Earthen Dam - I
- Lecture 22 - Flow Net in the Earthen Dam - II
- Lecture 23 - Stresses in the Soil Mass due to External Loadings - I
- Lecture 24 - Stresses in the Soil Mass due to External Loadings - II
- Lecture 25 - Compression Characteristics of Soils - I
- Lecture 26 - Compression Characteristics of Soils - II
- Lecture 27 - Consolidation of soils
- Lecture 28 - Coefficient of consolidation

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