

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

NPTEL Video Course - Civil Engineering - NOC:Ground Improvement

Subject Co-ordinator - Prof. Dilip Kumar Baidya

Co-ordinating Institute - IIT - Kharagpur

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

Lecture 1 - Need for Ground Improvement  
Lecture 2 - Ground Improvement Methods  
Lecture 3 - Ground Improvement Methods (Continued...)  
Lecture 4 - GI Methods and Classification  
Lecture 5 - Excavation and Replacement, the simplest GI method  
Lecture 6 - Shallow Densification  
Lecture 7 - Shallow densification (Continued...)  
Lecture 8 - Quality Control and Quality Assurance  
Lecture 9 - Application Problem  
Lecture 10 - Application Problem on Excavation and Replacement  
Lecture 11 - Deep Dynamic Compaction  
Lecture 12 - Deep Dynamic Compaction (Continued...)  
Lecture 13 - Deep Dynamic Compaction (Continued...)  
Lecture 14 - Deep Dynamic Compaction (Continued...)  
Lecture 15 - Deep Dynamic Compaction (Continued...)  
Lecture 16 - Rapid Impact Compaction  
Lecture 17 - Rapid Impact Compaction (Continued...)  
Lecture 18 - Rapid Impact Compaction (Continued...)  
Lecture 19 - Vibro compaction  
Lecture 20 - Vibro compaction (Continued...)  
Lecture 21 - Design Steps  
Lecture 22 - Design Parameters and Procedure  
Lecture 23 - Application Problem and Quality Control  
Lecture 24 - Deep Replacement  
Lecture 25 - Deep Replacement (Continued...)  
Lecture 26 - Drainage  
Lecture 27 - Dewatering  
Lecture 28 - Dewatering (Continued...)  
Lecture 29 - Dewatering Design Principle

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- Lecture 30 - Design Example
- Lecture 31 - Preconsolidation
- Lecture 32 - Preconsolidation (Continued...)
- Lecture 33 - Preconsolidation (Continued...)
- Lecture 34 - Preconsolidation (Continued...)
- Lecture 35 - Preconsolidation (Continued...)
- Lecture 36 - Grouting
- Lecture 37 - Grouting (Continued...)
- Lecture 38 - Grouting (Continued...)
- Lecture 39 - Grouting (Continued...)
- Lecture 40 - Grouting (Continued...)
- Lecture 41 - Grouting (Continued...)
- Lecture 42 - Chemical Stabilisation
- Lecture 43 - Chemical Stabilisation (Continued...)
- Lecture 44 - Chemical Stabilisation (Continued...)
- Lecture 45 - Chemical Stabilisation (Continued...)
- Lecture 46 - Soil Nailing
- Lecture 47 - Soil Nailing (Continued...)
- Lecture 48 - Soil Nailing (Continued...)
- Lecture 49 - Soil Nailing (Continued...)
- Lecture 50 - Soil Nailing (Continued...)
- Lecture 51 - Geosynthetics in Ground Improvement
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- Lecture 55 - Geosynthetics in Ground Improvement
- Lecture 56 - Geosynthetics in Ground Improvement (Continued...)
- Lecture 57 - Geosynthetics in Ground Improvement (Continued...)
- Lecture 58 - Geosynthetics in Ground Improvement (Continued...)
- Lecture 59 - Geosynthetics in Ground Improvement (Continued...)
- Lecture 60 - Summary and Concluding Remarks