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

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NPTEL Video Course - Civil Engineering - Ground Improvement Techniques
Subject Co-ordinator - Dr. G.L. Sivakumar Babu
Co-ordinating Institute - IISc - Bangalore
Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable
Lecture 1 - Need for Ground Improvement
Lecture 2 - Classification of ground modification techniques
Lecture 3 - Emerging trends in ground improvement
Lecture 4 - Mechanical modification
Lecture 5 - Compaction Control
Lecture 6 - Deep compaction
Lecture 7 - Dynamic compaction
Lecture 8 - Vibro-compaction methods
Lecture 9 - Case studies in stone columns
Lecture 10 - Prefabricated Vertical Drains (PVDS) - I
Lecture 11 - Prefabricated drains (PVDS) - II
Lecture 12 - Dewatering - I
Lecture 13 - Dewatering - II
Lecture 14 - Electro-kinetic stabilization
Lecture 15 - Heating and freezing methods, Blasting methods - I
Lecture 16 - Heating and freezing methods, Blasting methods - II
Lecture 17 - Ground Treatment with lime - I
Lecture 18 - Ground Treatment with lime - II
Lecture 19 - Ground treatment with cement
Lecture 20 - Grouting procedures
Lecture 21 - Grouting
Lecture 22 - Micropiles
Lecture 23 - Introduction to Geosynthetics - I
Lecture 24 - Introduction to Geosynthetics - II
Lecture 25 - Reinforced soil principles and mechanisms
Lecture 26 - Material properties
Lecture 27 - Factors affecting reinforced soil
Lecture 28 - Bearing capacity improvement - I
Lecture 29 - Bearing capacity improvement - II
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## NPTEL Video Lecture Topic List - Created by LinuXpert Systems, Chennai

Lecture 30 - Reinforced soil slopes
Lecture 31 - Reinforced Soil Walls
Lecture 32 - Reinforced Soil Walls - I
Lecture 33 - Soil Nailing
Lecture 34 - Design of embankments on soft soil using geosynthetics
Lecture 35 - Design of embankments on soft soil using geocells, Use of geosyntheticsfor filtration and drainated tecture 36 - Applications in filtration and drainage & erosion control
Lecture 37 - Geosynthetics in pavements
Lecture 38 - Sustainable development and energy geotechnology
Lecture 39 - Microbial geotechnology and Ground Improvement
Lecture 40 - Nano-technologies in ground improvement and site remediation

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