

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

NPTEL Video Course - Civil Engineering - NOC:Earthquake Resistant Design of Foundations

Subject Co-ordinator - Prof. B. K. Maheshwari

Co-ordinating Institute - IIT - Roorkee

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

Lecture 1 - Introduction  
Lecture 2 - Shallow Foundations  
Lecture 3 - Shallow Foundations  
Lecture 4 - Shallow Foundations  
Lecture 5 - Shallow Foundations  
Lecture 6 - Combined Footings  
Lecture 7 - Raft Foundations  
Lecture 8 - Raft Foundations  
Lecture 9 - Footings under Dynamic Loads  
Lecture 10 - Footings under Dynamic Loads  
Lecture 11 - Footings under Dynamic Loads  
Lecture 12 - Footings under Dynamic Loads  
Lecture 13 - Pile Foundations subjected to Static Vertical Load  
Lecture 14 - Pile Foundations  
Lecture 15 - Pile Foundations under Lateral Loads  
Lecture 16 - Pile Foundations under Lateral Loads  
Lecture 17 - Pile Foundations under Lateral Loads  
Lecture 18 - Pile Foundations under Lateral Loads  
Lecture 19 - Dynamic Analysis of Piles under Vertical and Horizontal Vibrations  
Lecture 20 - Dynamic Analysis of Piles under Horizontal Vibration  
Lecture 21 - Seismic Response of Pile Foundations - 1  
Lecture 22 - Seismic Response of Pile Foundations - 2  
Lecture 23 - Combined Pile-Raft Foundations (CPRF) - General  
Lecture 24 - Geotechnical and Seismic Analyses of CPRF  
Lecture 25 - Design of Piles in Liquefiable Soils - 1  
Lecture 26 - Design of Piles in Liquefiable Soils - 2  
Lecture 27 - Introduction to Well Foundations  
Lecture 28 - Lateral Stability of Well Foundations  
Lecture 29 - Lateral Stability, Construction and Sinking of Well Foundation

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- Lecture 30 - Titling and Shifting of Wells, Numerical Problems
- Lecture 31 - Introduction to Soil-Structure Interaction
- Lecture 32 - Effects of Soil-Structure Interaction
- Lecture 33 - SGM and Wave Propagation
- Lecture 34 - Dispersion, Attenuation of Waves and Damping
- Lecture 35 - Ground Response Analysis (GRA)
- Lecture 36 - Soil-Pile Interaction (SPI)
- Lecture 37 - Raft Foundations â Numerical Examples
- Lecture 38 - Foundations on Slopes - 1
- Lecture 39 - Foundations on Slopes - 2
- Lecture 40 - Codal Provisions