

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

NPTEL Video Course - Civil Engineering - NOC:Subsurface Exploration: Importance and Techniques Involved

Subject Co-ordinator - Prof. Abhishek Kumar

Co-ordinating Institute - IIT - Guwahati

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

- Lecture 1 - Introduction
- Lecture 2 - Phases and classification of subsurface Investigation
- Lecture 3 - Test Pits+ Borings
- Lecture 4 - Ground water table and rock drilling
- Lecture 5 - Standard Penetration Test
- Lecture 6 - Cone Penetration Test
- Lecture 7 - Dilatometer Test
- Lecture 8 - Pressuremeter Test
- Lecture 9 - Seismic reflection method
- Lecture 10 - Seismic refraction method
- Lecture 11 - Electrical Resistivity Survey
- Lecture 12 - Magnetic Survey
- Lecture 13 - Surface wave method
- Lecture 14 - Gravity Survey
- Lecture 15 - Offshore Investigation
- Lecture 16 - Geophysical Investigation in Offshore Environment
- Lecture 17 - Sampling and Geotechnical Investigations in Offshore Environment
- Lecture 18 - Important Terminologies in Offshore Environment
- Lecture 19 - Dynamic Testing in Pile Driving
- Lecture 20 - Dynamic Testing in Pile (Low Strain)
- Lecture 21 - Conclusion

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