

Seismic Analysis of Structures - Video course

COURSE OUTLINE

Seismology- tectonic plates, causes of earthquake, soil effects, seismic hazard analysis, Earthquake inputs - spectrums, PSDFs, design spectrum, predictive relationship; Response analysis for specified ground motion - time and frequency domain analyses of structures for single and multi point excitations; Response spectrum method of analysis - equivalent lateral load, response spectrum method for classically and non classically damped systems, response spectrums given in different codes;

Spectral analysis for random excitations- fundamentals of random vibration for spectral analysis, spectral analysis of structures for single and multipoint excitations;

Inelastic analysis of structures - incremental analysis for SDOF and MDOF systems, push over analysis, ductility, inelastic spectrum

COURSE DETAIL

Sl.No.	Topic	No. of hours
1.	Seismology	4
2.	Seismic Inputs	4
3.	Response Analysis for Specified Ground Motion	6
4.	Frequency Domain Spectral Analysis	5
5.	Response Spectrum Method of Analysis	5



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Civil Engineering

Pre-requisites:

1. Structural Analysis (desirable - Structural Dynamics)

Additional Reading:

1. Geotechnical Earthquake Engineering by C.L. Kramer.
2. Earthquake Engineering by Bruce A. Bolt.

Coordinators:

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