

# 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



NP-TEL

# NPTEL

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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:

**Dr. Ashok Gupta**  
Department of Civil  
Engineering IIT Delhi

**Dr. T.K. Datta**  
Department of Civil  
Engineering IIT Delhi

# Nptel Syllabus Metrology

**Clemens Wendtner**



## **Nptel Syllabus Metrology:**

## **Nptel Syllabus Metrology** Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Nptel Syllabus Metrology**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

<https://matrix.jamesarcher.co/files/Resources/HomePages/Andrew%20J%20Dubrin%20Leadership%207th%20Edition.pdf>

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