

# 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

<http://nptel.ac.in>

## 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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# Nptel Syllabus Metrology

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## **Nptel Syllabus Metrology:**

Nptel Syllabus Metrology: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the captivating narratives that have captivated audiences this year. Nptel Syllabus Metrology : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Nptel Syllabus Metrology : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and suspenseful novel that will keep you wondering until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

<https://matrix.jamesarcher.co/public/uploaded-files/HomePages/Coding%20Manual%20Hardcover.pdf>

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