Course Name:
An Introduction to Geotechnical Earthquake Engineering

<table>
<thead>
<tr>
<th>Course Number: -</th>
<th>Credit: 3</th>
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<tbody>
<tr>
<td>Program:</td>
<td>Undergraduate</td>
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<tr>
<td>Prerequisite:</td>
<td>Foundation Engineering</td>
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Course Content (outline):

- Introduction
- Fundamentals of Seismology & Earthquake Engineering
- Dynamic Characteristics & Properties of Soils
- Propagation of Earthquake Waves & Local Site Effects
- Seismic Design Considerations of Foundations
- Liquefaction & Its Hazards
- Seismic Behavior of Slopes & Landslide
- Seismic Behavior of Retaining Walls

References:

- Soil Dynamics & Earthquake Geotechnical Engineering, B. Adimoolam & S. Banerjee, 2019, Springer.
- Related Journals, Conference Proceedings and Reports and Experiences of Instructor.