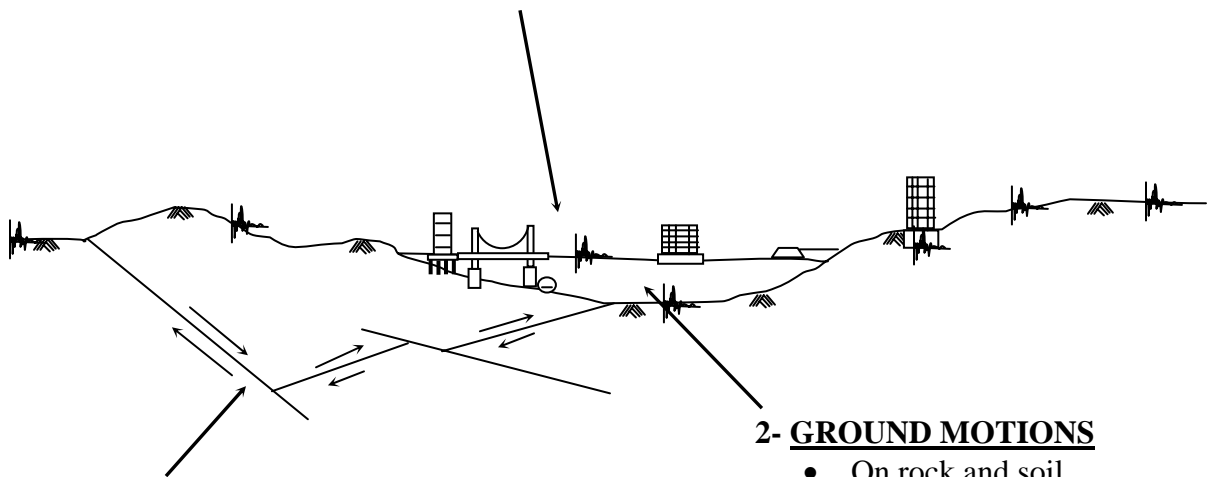


Course Objective:

To provide advanced knowledge of SEISMICITY, GROUND MOTIONS, and GEOTECHNICAL, STRUCTURAL & LIFELINE RESPONSE needed in Earthquake Engineering Practice.

3- GEOTECHNICAL, STRUCTURAL & LIFELINE RESPONSE

- Foundation response
- Structural Response
- Soil-Structure Interaction
- Dynamic Forces
- Structure and Soil Deformations



1- SEISMICITY

- Causes
- Seismic sources
- Magnitude/frequency
- Predictions

2- GROUND MOTIONS

- On rock and soil
- Attenuation
- Site effects
- Design Motions