

# Introduction to Engineering Seismology

**Module 5 Site characterization and Different methods, Seismic site classification in modern seismic codes, Concept of site response; Local site effects and evaluation methods, Introduction to liquefaction; methods and procedures of estimation**

## **Learning Objectives**

To learn the concepts of site characterization and Different methods, Seismic site classification, local site effects and site response, Liquefaction hazard mapping.

## **Highlights and Motivation**

The following topics are discussed in this module, which is delivered as a three lectures for the duration of 9 hours.

- ❖ Site characterization and site classification
- ❖ Local site effects, Ground motion amplifications and Response spectrum
- ❖ Liquefaction Mechanism and factors causing liquefaction,
- ❖ Estimating liquefaction hazard and Mapping