

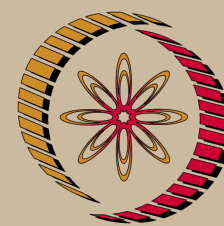
NOC:Geology and Soil Mechanics - Video course

COURSE OUTLINE

The course prepares the student to be able to make effective learning of basic soil mechanics. The course should have the pre-requisite of mechanics of solids/strength of materials course.

COURSE DETAIL

Week .No	Topic
1	Description of soil, engineering geology of soils and their formation, clay mineralogy
2	Index properties of soil
3	Classification of soils
4	Soil compaction
5	Permeability in soil
6	Seepage in soil and flow net construction
7	Seepage in soil and flow net construction
8	In-situ stresses and criteria for filter design
9	Effective stress principle and soil-water systems: capillarity
10	Fundamental of consolidation
11	Fundamental of consolidation
12	Shear strength of soil
	Shear strength of soil



NP-TEL

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<http://nptel.ac.in>

Civil Engineering

Pre-requisites:

Mechanics of solids/Strength of materials

Coordinators:

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13	
14	Shear strength of soil
15	Stress in soil
16	Earth pressure theories

