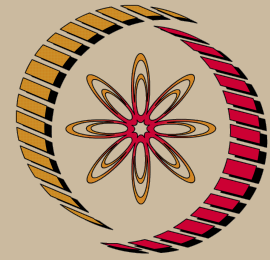


# Soil Mechanics - Video course

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No.	Topic details	*Proposed number of lectures
1	Introduction; Origin of soils; Basic Relationships; Properties of Soil Aggregate, Soil Structure; Soil Classification.	Nine
2	Soil Compaction; Laboratory compaction; Factors affecting soil compaction; Field compaction.	Four
3	Soil-water Statics; Concept of Effective Stress	Two
4	Flow through soils; Quick Sand condition; Permeability and methods for its determination; Flownets	Ten
5	Stresses in soil from surface loads; Boussinesq theory; Newmark's chart	Five
6	Consolidation of soils; Settlement of compressible soil layers; Sand drains.	Eight
7	Shear strength; Mohr circle of stress; Mohr-Coulomb failure criterion; Estimation of shear strength parameters; Stress paths.	Ten
8	Earth Pressure theories- Retaining walls; Anchored bulkheads	Eight
9	Stability of slopes; Infinite/Finite Slope Stability Analysis.	Four

\*Approximate number of Lectures



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## Civil Engineering

**Coordinators:**

**Dr. B.V.S. Viswanadham**

Department of Civil Engineering IIT Bombay