

CE 312: Geotechnical Engineering Lab - II (0-0-2: 1)

Suggested list of experiments

- 01) To find shear strength of a given soil specimen.
- 02) To determine the shearing strength of the soil using the direct shear apparatus.
- 03) To determine shear parameters of cohesive soil
- 04) To find the shear of the soil by Undrained Triaxial Test.
- 05) To determine the settlements due to primary consolidation of soil by conducting one dimensional test.
- 06) To determine the California bearing ratio by conducting a load penetration test in the laboratory.
- 07) Determination of shear strength in-situ [Standard Penetration test (SPT), Cone Penetration Test (CPT), Dynamic Cone Penetration Test (DCPT), Vane Shear Test (VST), Dilatometer Test (DMT), Pressure meter Test (PMT) etc]

References:

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 4. *Lambe T.W and Whitman R.V., "Soil Mechanics", John Wiley & Sons.*
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 7. *Bardet J., "Experimental soil mechanics", Upper Saddle River, Prentice Hall, USA.*
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