

DEPARTMENT OF CIVIL ENGINEERING

SOIL MECHANICS LABORATORY

Sl.NO.	NAME OF THE EXPERIMENT	Hyper Link
1	Specific gravity of soil solids	https://www.youtube.com/watch?v=hNNilk-OKaw
2	Grain size distribution – Sieve analysis	https://www.youtube.com/watch?v=CAezS3mPzOc
3	Grain size distribution - Hydrometer analysis	https://www.youtube.com/watch?v=78sKJKsaUvY
4	Liquid limit and Plastic limit tests	https://www.youtube.com/watch?v=pM-w_cvk1nA
5	Shrinkage limit and Differential free swell tests	https://www.youtube.com/watch?v=UyWdZJg4f_Y https://www.youtube.com/watch?v=qFlmUBHVAKw
6	Field density Test (Sand replacement method and core cutter method)	https://www.youtube.com/watch?v=C10dklH12W0 https://www.youtube.com/watch?v=5rDHjZ_RJq0
7	Determination of moisture – density relationship using standard Proctor compaction test.	https://www.youtube.com/watch?v=c4i_y6u-tsE
8	Determination of relative density	https://www.youtube.com/watch?v=k3AIhoILWUk
9	Permeability determination (constant head and falling head methods)	https://www.youtube.com/watch?v=B3gvVN29u8E https://www.youtube.com/watch?v=SS7o6sKw2Xc
10	One dimensional consolidation test	https://www.youtube.com/watch?v=wKdAbLamsvU
11	Direct shear test in cohesionless soil	https://www.youtube.com/watch?v=bmpn5oNDvOs
12	Unconfined compression test in cohesive soil	https://www.youtube.com/watch?v=M4TNKwuSnAk
13	Laboratory vane shear test in cohesive soil	https://www.youtube.com/watch?v=fhub_nMvfBE&t=44s
14	Tri-axial compression test in cohesionless soil	https://www.youtube.com/watch?v=KecOIID4kJg https://www.youtube.com/watch?v=wuyzfzONAIk
15	California Bearing Ratio Test	https://www.youtube.com/watch?v=fCmMW73rP64
16	Determination of apparent opening sizes and permeability	https://www.youtube.com/watch?v=PA_mH5ko9f8 https://www.youtube.com/watch?v=Gms038fyas0

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