

Civil Engineering Virtual Labs

List of Labs	Theory	Experiment	Virtual lab	Animation	Website
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A. Soil Mechanics					
1. Water Content					
2. Unit Weight					
3. Specific Gravity					
4. Grain Size Distribution					
5. Attenberg Limits					
6. Permeability					
7. Compaction Test					
8. Consolidation Test					
9. Direct Shear Test					
10. Triaxial Test					

B. Strength Of Materials					
1. Tensile Test					
2. Compression Test					
3. Shear Test					
4. Torsion Test					
5. Impact Test					
6. Creep test					
7. Fatigue Test					
8. Compression Test on Spring					
9. Principal Stresses					
10. Yield Criterion					

C. Fluid Mechanics					
1. Bernoulli's Experiment					
2. Venturi meter					
3. Orifices					
4. Mouthpieces					
5. Weirs					
6. Channels					
7. Reynold's Experiment					
8. Vortices's					
9. Jets					
10. Turbines					

D. Structural Analysis					
1. Rigid Joints					
2. Single Span beams					
3. Continuous beams cantilever					
4. Continuous beams simply supported					
5. Continuous beams fixed supported					
6. Column Analysis					
7. Portal Frames					
8. Plates					
9. Arches					
10. Trusses					
11. Retaining Walls					
12. Plastic Hinge					