


Walchand Institute of Technology, Solapur
Lab Details

Lab Photo	
Lab Name	Geotechnical Engineering Laboratory
Lab Description	<p>The Lab is equipped with various instruments required for determination of index properties and strength properties of soil. The various field testing apparatus are also present in the lab. Lab is well equipped with all modern amenities and digital data acquisition system. Testing and consultancy services are rendered to the society through this Lab in the area of Geo technical Engineering. Recently the lab is modernized with the help of financial assistance by A.I.C.T.E New Delhi under MODROBS Scheme.</p>
Lab Equipments	<p>Index properties tests Mechanical sieve Analysis Apparatus, Hydrometer analysis Apparatus, Atterberg's Limit's Apparatus (LL, PL, SL), Specific gravity test Apparatus, Density Bottle, Pycnometer, Field density test Apparatus- Sand Replacement, Core cutter, Compaction tests- Standard Proctor, Modified Proctor, Automatic Compactor, Strength tests- Digital Triaxial test Apparatus Digital Box shear test Apparatus (Small and Large Sample Size), Vane shear test Apparatus, Unconfined Compression test Apparatus, Permeability test- Constant head, falling head, Digital Consolidation test Apparatus (Three gang Swelling pressure test Apparatus, Plate Load test setup, Standard penetration test Apparatus</p>
Lab Floor Area in square meters	172
Practicals Engaged	1 Determination of Specific gravity of coarse and fine grained soil, 2

in Lab	<p>Particle size distribution – Mechanical sieve analysis,3 Determination of Atterberg's Consistency limits- a.Liquid limit, b Plastic limit,c Shrinkage limit, 4 Determination of coefficient of Permeability, 5 Determination of Field density</p> <p>a. Core cutter ,b. Sand replacement method.,6 Direct box shear test,7 Proctor compaction test-a.Standard proctor, b.Modified proctor, 8Triaxial test,9 Unconfined compression test,10 One dimensional consolidation test,11 Standard penetration test,12 Plate load test,13. Swelling pressure test,14. Vane shear test</p>
Name of Lab Incharge	Dr.M.G.Kalyanshetti
Associated Faculty of the Lab	Dr.S.A.Halkude,Dr.S.S.Kashid , Mr.S.B.Javheri , Mr.S.B.Javheri
Name of Lab Assistant	Mr.S.G.Rajmane
Name/s of Lab Menial Staff	Mr.B.M.Zade