

GUJARAT TECHNOLOGICAL UNIVERSITY
M.E. Civil (Geotechnical Engineering)
Semester: I

Subject Name: **Experimental Geotechnics**
Subject Code: **714307**

Sr. No	Course Content
1	Atterberg limit tests; Grain size distribution by sieve and Hydrometer methods;
2	Compaction; Consolidation; Permeability;
3	Direct Shear and Triaxial Compression tests; Lab Vane shear test,
4	Cyclic Triaxial test. Insitu field density test, Electrical resistivity Survey,
5	Light cone penetration test, Field vane shear test,
6	Block vibration test, Cross hole test, SASW test, Plate load test,
7	Pile load test, Lateral dynamic pile load test, Pile integrity test,
8	Instrumentation for field monitoring: Inclinometer, Pressure pad,
9	Settlement gauge, Piezometer: Vibration measurement.