

GUJARAT TECHNOLOGICAL UNIVERSITY

M.E Semester: III

Civil Engineering (Structural Engineering)

Subject Name **Experimental Structural Engineering**

Sr. No	Course content
1.	Experiments related to Earthquake Engineering using shake table, vibration analyzer etc. to understand the seismic behavior of the various structures.
2.	Field investigation of structures for earthquake resistance and preparation the report/guide line on it.
3.	Experiments in foundation engineering like study of factors affecting Bearing Capacity, settlement, liquefaction etc.

Reference Books:

1. Nainan P Kurian, "Design of Foundation Systems", Narose Pub. House.
2. J. E. Bowles, "Foundation Analysis and Design", McGraw Hill
3. Paulay T and Priestley, M.J.N., "Seismic Design of Reinforced Concrete and Masonry Buildings ", John Wiley, 3/e/1995
4. Sharma Hemant Kumar and Agrawal G, " E. Q. Resistant Building Constructin", ABD Publishers, Jaipur.
5. Dr. Arya AS et all, " Guidelines for E.Q. Resistant Non-engineered Construction", IAEE Committee, 1/e/1986