

## **CE 214: GEOTECHNICAL ENGINEERING LAB - I (0-0-2: 1)**

### **Suggested list of Experiments:**

- 01) To determine the specific gravity of soil.
- 02) To determine the water content of soil sample
- 03) Grain size analysis of soils
- 04) To estimate the consistency limit of fine grained soils.
- 05) To estimate the index properties of soil sample.
- 06) To determine the optimum moisture content of soil.
- 07) To estimate shear strength of soils by vane shear test.
- 08) To estimate the engineering properties of the soils by density test, CBR test, permeability test.

### **References**

1. Gopal Ranjan and Rao, A.S.R., "Basic and Applied Soil Mechanics", New Age International.
2. Terzaghi K., Peck R. B. and Mesri G., "Soil Mechanics in Engineering Practice", John Wiley & Sons
3. Kaniraj S.R., "Design Aids in Soil Mechanics & Foundation Engineering", Tata McGraw Hill.
4. Lambe T.W and Whitman R.V., "Soil Mechanics", John Wiley & Sons.
5. Punmia B.C., "Soil Mechanic and Foundation Engineering", Laxmi Publication Pvt. Ltd.
6. Braja M. Das., "Fundamental of Foundation Engineering", Thomson Asia Pvt. Ltd, Singapore.