

# GUJARAT TECHNOLOGICAL UNIVERSITY

4<sup>th</sup> Semester Civil Engineering – PDDC

**Subject Code & Name :** X40603 - Soil Engineering

## Syllabus for Mid-Sem Exam

**Date : 27-03-2015**

### **Module-I Stress distribution**

Boussinesq's theory for distribution of pressure on a vertical plane and a horizontal plane below ground surface due to vertical point load on the ground surface, isobar assumptions, comparison and limitations of Boussinesq theory & Westergaard theory. Stress caused by loaded areas of different shapes, Newmark's influence chart.

### **Module-II Compaction**

Definition, theory of compaction, factors affecting compaction, laboratory compaction tests, effect of compaction on soil properties, methods of compaction used in field.

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