

Shantilal Shah Engineering College, Bhavnagar				
Applied Mechanics Department				
BE - CIVIL ENGINEERING, (SEM 6th EVEN-2022)				
Syllabus of Mid Sem Evaluation (March-2022)				
#	Semester	Subject Code	Name of Subject	Syllabus-Topic/Units
1	6th	3160612	Design of Reinforced Concrete Structures (Elective-II)	1. Design of retaining wall 2. Wind and EQ load Calculation 3. Analysis and design of Rectangular water tank.
2		3160616	Foundation Engineering (Elective-III)	1. Foundation Classification and Soil exploration/investigation: Types of foundation, Factors affecting the selection of type of foundations, steps in choosing types of foundation based on soil condition, Objectives and planning of exploration program, methods of exploration-depth of boring, Soil samples and samplers- Methods of sampling, field penetration tests: SPT, SCPT, DCPT. Introduction to geophysical methods, Bore log and report writing and Data interpretation. 2. Pile Classifications & Load Transfer Principle of Pile foundation : Introduction, load transfer mechanism, types of piles and their function, factors influencing selection of pile, their method of installation
3		3160621	Earthquake Engineering (Elective-III)	1. Earthquake Basics 2. Fundamentals of Earthquake Vibrations 3. Design Philosophy (Computuon of Base Shear)

Sd/-
HOD-Applied Mechanics
SSEC-Bhavnagar