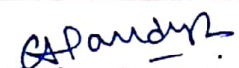


Shantilal Shah Engineering College, Bhavnagar

Date: 16/08/2019

Applied Mechanics Department - Syllabus of MST/PAT

#	Subject Code	Name of Subject	Wt.	Syllabus of MST / PAT
B. E. - IIIrd Semester				
1	3130608	Mechanics Of Solids	20	1. Introduction. 2. Force System, Numericals on parallelogram, Resolution of forces & Lami's theorem. 3. Centroid & Centre of Gravity
2	3130606	Geotechnical Engineering	20	1. Type of Soils, Index Properties, Inter-relationships and Soil Characterization [up to index properties] 2. Compaction and Introduction of Consolidation of Soils 3. Stress Distribution
B. E. - Vth Semester				
1	2150608	Structural Analysis - II	20	1. Energy Principles 2. Slope and deflection Method
2	2150609	Soil Mechanics	20	1. Compaction 2. Introduction of Consolidation of Soils 3. Stress Distribution of Soils
3	2150003	Disaster Management (Department Elective - I)	20	1. Introduction 2. Types, trends, causes, consequences and control of Disaster. 3. Disaster Management Cycle, paradigm shift in Disaster Management, Risk Assessment & Analysis.
B. E. - VIIth Semester				
1	2170607	Design of Reinforced Concrete Structures	20	1. Building Layout and Design 2. Design of Retaining wall
2	2170612	Earthquake Engineering (Department Elective - II)	20	1. Earthquake Basics 2. Fund. of EQ Vibration (Up to Free Damped Vibration) 3. App. Analysis Method (Up to Portal method)
PDDC - IIIrd Semester				
1	2930603	Geotechnical Engineering	30	1. Type of Soils, Index Properties, Inter-relationships and Soil Characterization 2. Compaction & Consolidation of soil
PDDC - VIth Semester				
1	X50602	Earthquake Engineering	30	1. Earthquake Basics 2. Fund. of EQ Vibration (Up to Free Damped Vibration) 3. Design Philosophy (Base Shear)
2	X50603	Foundation Engineering	30	1. Introduction 2. Subsurface Investigation 3. Bearing Capacity of Shallow Foundation


 Head - Applied Mechanics Department
 Shantilal Shah Engineering College, Bhavnagar