


Shantilal Shah Engineering College, Bhavnagar

Date: 16/Aug/2018

Applied Mechanics Department

Syllabus of MST/PAT for B.E./PDDC (3rd, 5th & 7th Semester)

#	Subject Code	Name of Subject	Syllabus of MST / PAT
B. E. - Seventh Semester			
1	2170607	Design of Reinforced Concrete Structures	1. Design of G + 3 story R. C. C. Buildings 2. Design of Retaining Wall
2	2170612	Earthquake Engineering (Department Elective- II)	1. Earthquake Basics 2. Fundamentals of Earthquake Vibrations 3. Design Philosophy
B. E. - Fifth Semester			
1	2150608	Structural Analysis - II	1. Energy Principles 2. Slope & Deflection Method 3. ILD for Statically Determinate beams
2	2150609	Soil Mechanics	1. Compaction 2. Stress Distribution of Soils
3	2150003	Disaster Management (Department Elective-I)	1. Understanding Disasters 2. Types, Trends, Causes, Consequences & Control 3. Disaster Management in India
PDDC - Fifth Semester			
1	X50602	Earthquake Engineering	1. Earthquake Basics 2. Fundamental of Earthquake Vibration.
2	X50603	Foundation Engineering	1. Introduction 2. Subsurface investigation 3. Bearing Capacity of Shallow Foundation
B. E. - Third Semester			
1	2130003	Mechanics of Solids	1. Introduction 2. Fundamentals of Statics 3. Centroid and Moment of Inertia
2	2130606	Geotechnics & Applied Geology	1. Introduction 2. Origin and Nature of Soil 3. Index Properties, Relationships and Tests 4. Soil Water 5. Permeability and Seepage 6. Physical Geology
PDDC - Third Semester			
1	X30603	Structural Analysis-II	1. Buckling 2. Analysis of continuous beams for various loading including settlement/ rotation of support by slope deflection method,


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