

Dicipline:	Civil Engg.	Semester: 6 th	Name of the Teaching Faculty: Pratikshya Bhatnagar	
Subject:	ACTE	No of Days/Week Class Allotted: 4	Semester From date: 13.2.23 To date: 23.5.23	No. of Weeks:

WEEK	Class Day	Theory Topics
01	1st	Introduction
	2nd	Advanced construction materials - fiber and plastic - Types of fiber steel. Use of fiber as construction material
	3rd	
	4th	Properties of fiber
	5th	
02	1st	Types of plastics - PVC, RPVC, HDPE, FRD GRP
	2nd	Colour plastic sheets, use of plastic as construction material
	3rd	Artificial timber - Properties and uses Types of artificial timber
	4th	Miscellaneous material - Properties and Uses of acoustic materials
	5th	
03	1st	Wall claddings, plaster boards, mica silica, artificial sand binder upst
	2nd	Prefabrication - Introduction, necessity and scope of prefabrication of building
	3rd	
	4th	History of prefabrication, current use of prefabrication
	5th	Types of prefabricated systems, classification of prefabrication advantages & disadvantages.

WEEK	Class Day	Theory Topics
04	1st	Theory and process of prefabrication
	2nd	Design Principle of prefabricated system
	3rd	Types of prefabrication element
	4th	Modular coordination
	5th	
05	1st	Indian Standard recommendation for modular planning
	2nd	Part Duct cleaning class
	3rd	Earthquake resistance construction - Building configuration
	4th	Lateral load resisting structures.
	5th	
06	1st	Building characteristics
	2nd	Effect of structural irregularities
	3rd	Plan configuration problems
	4th	Safety consideration during additional construction & alteration of existing
	5th	

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WEEK	Class Day	Theory Topics			
07	1st	Additional strengthening measures in masonry building corner reinforcement			
	2nd	Lintel band, sill band, roof band, gable band etc.			
	3rd	Retrofitting structures introduction -			
	4th	Seismic retrofitting of reinforced concrete building			
	5th				
08	1st	Sources of weakness in RC frame building			
	2nd	Classification of retrofitting techniques			
	3rd	Uses of retrofitting techniques			
	4th	Revision class.			
	5th				
09	1st	Building services - cold water distribution in high rise building			
	2nd	Layout installation of cold water			
	3rd	Hot water supply - General principles for central plant layout			
	4th	Sanitation - Soil and waste water installation in high rise building.			
	5th				

WEEK	Class Day	Theory Topics
	1st	Requirement of high rise building w layout of winery, types of winery
	2nd	Lighting - Requirement of lighting Natural and artificial, ventilation,
	3rd	Ventilation - Method of ventilation Natural and artificial, ventilation, Problem
	4th	Mechanical services - Lift, Escalator, Elevator - type & uses.
	5th	
	1st	Construction and earthmoving equipment planning and selection of construction equipment.
	2nd	Study of earthmoving equipment like - dozer, tractor, bulldozer, power shovel
	3rd	Study and uses of compacting equipment like Tamping roller.
	4th	Smooth wheel roller, Pneumatic tired roller
	5th	
	1st	vibrating compactor with roller double drum class.
	2nd	Problems
	3rd	Owning and operating cost problem
	4th	Problem
	5th	

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WEEK	Class Day	Theory Topics		
	1st	Soil reinforcing - introduction		
	2nd	Necessity of soil reinforcing		
	3rd	Techniques of soil reinforcing		
	4th	Shearwall, wing wall, beam, Jacketing, Column Jacketing		
	5th			
	1st	Use of reinforcing technique		
	2nd	Use wire mesh & geo-synthetics		
	3rd	Review class - soil reinforcing		
	4th	Strength of embankment		
	5th			
	1st	Slope stabilization cutting by soil reinforcing technique.		
	2nd	Embankment by soil reinforcing technique		
	3rd	Different type of soil reinforcing		
	4th	Clay Test.		
	5th	<div style="display: flex; justify-content: space-between;"> 9/10/22 10/2/23 </div>		