

Discipline: <u>Civil Engg.</u>	Semester: <u>6th</u>	Name of the Teaching Faculty <u>Geetha Bai, Rohana</u>	
Subject: <u>ACTE</u>	No of Days/Week Class Allotted: <u>4</u>	Semester From date: <u>11-03-2022</u> To date: _____	No. of Weeks: _____

WEEK	Class Day	Theory Topics
	1st	Introduction
	2nd	Advanced construction materials - Fiber and plastics - Types of fiber steel, carbon
	3rd	Use of fibers as construction material.
	4th	Properties of fiber
	5th	
	1st	Types of plastics - PVC, RPVC, HDPE, TAP, GRP
	2nd	Colored plastic sheets, use of plastic as construction material.
	3rd	Artificial Timbers - Properties and uses of artificial timber, Types of artificial timber
	4th	Miscellaneous materials - Properties and uses of acoustic materials
	5th	
	1st	Wall claddings, plaster boards, micro silica artificial sand bonding agent
	2nd	Prefabrication - Introduction, necessity and scope of fabrication of building.
	3rd	History of prefabrication, Current uses of prefabrication
	4th	Types of prefabricated systems, classification of prefabrication advantages & disadv.
	5th	

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

Dicipline:	CIVIL ENGG.	Semester:	6th	Name of the Teaching Faculty	Pratikshya Shukla
Subject:	ACTE	No of Days/Week Class Allotted:	4	Semester From date:	14.03.2022 To date _____
				No. of Weeks:	

WEEK	Class Day	Theory Topics
	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	
	1st	Sources of weakness in RC frame building
	2nd	Classification of retrofitting techniques.
	3rd	uses of retrofitting techniques.
	4th	Revision class -
	5th	
	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 waste water installation in high rise building, Electrical services
	5th	

WEEK	Class Day	Theory Topics
	1st	Requirement of high rise building @ Layout of wiring, types of wiring Fuse & their types
	2nd	Lighting - Requirement of lighting, Measurement of light intensity.
	3rd	Ventilation - Method of ventilation (Natural & artificial ventilation), Problems on ventilation.
	4th	Mechanical services, - Lift, Escalators, Elevator - type & use.
	5th	
	1st	Construction and earthmoving equipment - Planning and selection of construction equipment
	2nd	Study of earthmoving equipment like - drag line, tractor, tractor, bulldozer, power shovel.
	3rd	Study and uses of compacting equipment like tamping roller.
	4th	Smooth wheel roller, Pneumatic tired roller,
	5th	
	1st	Vibrating Compactors with revision
	2nd	Owning and operating cost problems
	3rd	Problems
	4th	Doubt Doubt clear class
	5th	

Dicipline:		Semester:	Name of the Teaching Faculty	
Subject:		No of Days/Week Class Allotted: _____	Semester From date: _____ To date _____	No.of Weeks:
WEEK	Class Day	Theory Topics		
	1st	soil reinforcing - introduction		
	2nd	Necessity of soil reinforcing ,		
	3rd	Technique of soil reinforcing ,		
	4th	shearwall , wing wall , beam Jacketing , column Jacketing .		
	5th			
	1st	Uses of reinforcing technique .		
	2nd	Use wire mesh & geo-synthetics		
	3rd	Revision class- soil reinforcing technique .		
	4th	Strengthening of embankment .		
	5th	⑤		
	1st	slope stabilization cutting by soil reinforcing technique .		
	2nd	technique Embankments by soil reinforcing		
	3rd	Different type of soil reinforcing		
	4th	class Test .		
	5th			