

Discipline: Civil	Semester: 6th	Name of the Teaching Faculty Swarnika Mohanty	
Subject: ACTE	No of Days/Week Class Allotted: 04	Semester From date: _____ To date: _____	No. of Weeks: _____

WEEK	Class Day	Theory Topics
	1st	Fibers and plastics, Types of fibers
	2nd	Steel carbon, glass fibers
	3rd	Use of fibers as construction Material
	4th	properties of fibers
	5th	Plastics:- Types of plastics, PVC, RPVC.
	1st	HDPE, FRP, GRP etc. plastic sheet
	2nd	Use of plastics as construction Material
	3rd	Artificial Timber, properties & use of plastic as construction Material.
	4th	
	5th	Types of artificial timber, strength of artificial timber.
	1st	Strength of artificial timber. Explain with properties.
	2nd	properties and use of acoustic Material, wall cladding, plaster board, microsilia, artificial sand.
	3rd	Different type of cladding
	4th	Question discussion about artificial timber, cladding.
	5th	Pre fabrication Introduction, necessity & scope of pre fabrication

WEEK	Class Day	
	1st	
	2nd	Advantages & disadvantages
	3rd	Type of prefabricated system
	4th	The theory and process of Prefabrication
	5th	Retrofitting of structures - Introduction example
	1st	Seismic retrofitting of reinforced concrete buildings.
	2nd	Seismic retrofitting Sources of weakness in RC frame buildings
	3rd	Seismic retrofitting class sources of weakness in RC frame buildings
	4th	Question discussion class
	5th	Classification of retrofitting techniques =
	1st	
	2nd	Seismic retrofitting (Revision class)
	3rd	Classification of retrofitting techniques
	4th	Seismic retrofitting
	5th	Classification of retrofitting technique

Name: <u>civil</u>	Semester: <u>6th</u>	Name of the Teaching Faculty <u>Swarna Mohanty</u>	
Subject: <u>ACTE</u>	No of Days/Week Class Allotted: <u>04</u>	Semester From date: _____ To date _____	No. of Weeks: _____

WEEK	Class Day	Theory Topics
	1st	
	2nd	Building services - Introduction, example classification of retrofitting technique
	3rd	
	4th	Cold water distribution in high rise building
	5th	Hot water supply
	1st	
	2nd	Sanitation - soil & waste water installation
	3rd	Electrical services fuse, earthing, uses & ventilation
	4th	Ventilation.
	5th	Method of ventilation (Natural ventilation)
	1st	
	2nd	Method of ventilation (Artificial ventilation)
	3rd	Mechanical services, Lift, Escalators, Elevators.
	4th	Planning and section of construction equipments
	5th	Study of earth moving equipments like dragline, tractor, bulldozer.

WEEK	Class Day	Theory Topics
	1st	
	2nd	bulldozers, power shovels
	3rd	study and uses of compacting equipments like tamping rollers
	4th	Smooth wheel rollers
	5th	Pneumatic tired rollers and vibrating compactors
	1st	.
	2nd	owning and operating cost-problem
	3rd	Necessity of soil reinforcing
	4th	use wire mesh & geo-synthetics
	5th	strengthening of embankments, slope stabilization
	1st	
	2nd	slope stabilization in cutting and embankments *
	3rd	soil reinforcing technique
	4th	Miscellaneous materials = Revision class - cladding (wall) Glass cladding,
	5th	tile cladding, wood cladding.

WEEK	Class Day	Theory Topics
39	1st	1- construction and earth moving equipment - planning and
	2nd	Selection of construction equipment
	3rd	2- dragline, bulldozer, power shovels
	4th	3- Bulldozer (Types of bulldozer)
	5th	4- power shovels
	1st	
	2nd	5- compacting equipment
	3rd	tractor, types of equipment for construction
	4th	Earthquake (Introduction)
	5th	
	1st	
	2nd	
	3rd	
	4th	
	5th	

CIVIL
ACTE
Semester: 6th
Name of the Teaching Faculty: Swarupa Mohanty
No of Days/Week Class Allotted: 04
Semester From date: _____ To date: _____
No of Weeks: _____

WEEK	Class Day	Theory Topics
	1st	cold water distribution in high rise building
	2nd	Hot water supply
	3rd	sanitation - soil & waste water installation
	4th	
	5th	Electrical services base, earthing & uses.
	1st	
	2nd	ventilation
	3rd	Method of ventilation
	4th	Method of ventilation
	5th	Mechanical Services, Lift, Escalators & elevators.
	1st	
	2nd	Mechanical Services escalator, elevators, type and uses.
	3rd	soil reinforcing introduction
	4th	Necessity of soil Reinforcing
	5th	case wire Mesh and Geosynthetics

WEEK	Class Day	Theory Topics
39	1st	1- construction and earth moving equipment - planning and
	2nd	Selection of construction equipment
	3rd	2- dragline, bulldozer, power shovels
	4th	3- Bulldozer (Types of bulldozer)
	5th	4- power shovels
	1st	
	2nd	5- compacting equipment
	3rd	tractor, types of equipment for construction
	4th	Earthquake (Introduction)
	5th	
	1st	
	2nd	
	3rd	
	4th	
	5th	