

LESSONPLAN

SUBJECT:ADVANCE CONSTRUCTION	ACADEMICSESSION:2022-23
TECHNIQUES & EQUIPMENT (TH3)	
FACULTY: SWAVI SHRABANI DAS	SEMESTER:6 TH
	SEC -A

Sd/-
HOD(CivilEngineering.)

Discipline: Civil	No. of Days/ per week class allotted: 04periods per week. (Tue-1, Wed-1, Thu-1, Fri-		Name of the teaching faculty: Swavi Shrabani
Engineering			Das State Property 14 02 2022
Subject: ACTE			Semester From Date: 14-02-2023
			To Date: 23-05-2023
	1period)		No. of weeks: 15 weeks
Week	Class Day	No of period available	Theory Topics
	14/02/23		1 Advanced construction Materials
			1.1 Fibers and plastic:-Types of fibers-steel, carbon, glass fibers as construction materials, properties of
		1	fibers
	15/02/23		1.1 Types of plastics-
1st			PVC,RPVC,HDPE,FRP,GRP,etc.Colored
151		1	plastic sheets. Use of plastic as construction
			material
	16/02/23		1.2 Artificial Timber-Properties and uses of
		1	artificial timber. Types of artificial timber
			available in market, strength of artificial timber.
	<u>17/02/23</u>	1	1.3 Miscellaneous materials-Properties and uses
		1	of acoustics materials, wall cladding
	21/02/23		1.3 plaster boards,micro-
		1	silica, artificials and, bonding agents, adhesives etc.
	22/02/22		2 Prefabrication
2nd	22/02/23	1	2.1 Introduction,necessity and scope of prefabrication
Ziiu	23/02/23		2.1 History of prefabrication, current uses of
	23/02/23	1	prefabrication, types of prefabricated systems
	24/02/23		Monthly Class Test -1
	21/02/25	1	Wollding Class Test 1
	28/02/23	1	2.1 Classification of prefabrication, advantages
		1	and disadvantages of prefabrication
	1/03/23	1	2.2 The theory and process of prefabrication
3rd	2/03/23	1	2.2 Design principle of prefabricated systems,types
J = 1.		1	of prefabricated elements
	3/03/23		2.2 modular coordination
		1	2.3 Indian standard recommendation for
			modular planning
4th		1	3 Earthquake Resistant Construction

	0/02/22		2.1 Duilding configuration
	9/03/23		3.1 Building configuration
		1	3.2 Lateral load resisting structures 3 Building characteristics
	10/03/23	1	
		1	3.3 Building characteristics
	14/03/23	1	3.4 Effect of srtuctural irregularities-vertical
	15/03/23		irregularities, plan configuration problems.
5th	13/03/23	1	3.5 Safety consideration during additional construction and alteration of existing buildings.
	16/03/23		3.6 Additional strengthening measures in masonry
	10/03/23	1	building-corner reinforcement, lintel band, sill band
		_	etc.
	17/03/23		4 Retrofitting of Structure
		1	4.1 Seismic retrofitting of reinforced concrete
		1	buildings
	21/03/23		4.2 Sources of weakness in RC frame building
		1	4.3 classification of retrofitting techniques and
			their uses
	22/03/23		5 Building Services
6th		1	.5.1 Cold water distribution in high rise
om			building,layout of installation
	23/03/23	1	.5.1 Cold water distribution in high rise
		4	building,layout of installation
	24/03/23	1	5.2 Hot water supply -general principles for
		-	central plants- layout
	28/03/23	1	5.3 Sanitation-soil and waste water installation
		-	in high rise buildings
7th	<u>29/03/23</u>	1	5.4 Electrical services-i)requirements in high
			rise buidings
	31/03/23	1	5.4 ii)layout of wiring
	4/04/23	1	Monthly Class Test-2
	5/04/23		iii)fuses and their types
8th	3/01/23	1	iv) earthing
	6/04/23		5.5 Lighting
		1	
	11/04/23	1	5.6 Ventilation
9th	12/04/23	1	5.7 Mechanical services-lift ,escalator,elevators-
			types and uses.
	13/04/23	4	5.7 Mechanical services-lift ,escalator,elevators-
		1	types and uses.
10th	18/04/23	4	6 Construction and earth moving equipments
10th		1	6.1 Planning and selection of construction

			equipments
	19/04/23	_	6.2 Study on earth moving equipments
		1	0.2 Study on curtir moving equipments
	20/04/23		6.3 Study and uses of compacting equipments
			like tamping rollers, smooth wheel
		1	rollers,pneumatic tired rollers and vibrating
			compactors
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			like tamping rollers, smooth wheel
		1	rollers, pneumatic tired rollers and vibrating
			compactors
	25/04/23	1	Monthly Class Test 3
		1	•
	<u>26/04/23</u>	1	6.4 Owning and operating cost-problems
	25/04/22	_	
11th	<u>27/04/23</u>		7 Soil reinforcing techniques
		1	7.1 Necessity of soil reinforcing
	20/04/22		DIEEDMAA AGGEGGAAENE
	28/04/23	1	INTERNAL ASSESSMENT
	2/05/23		7.2 Use wire mesh and geo-synthetics
	2/05/25	1	7.2 Ose wife mesh and geo synthetics
	3/05/23	1	7.3 Strengthening of embankments
12th		1	
12th	<u>4/05/23</u>	1	7.3 Slope stabilization in cutting
		1	
	<u>5/05/23</u>	1	7.3 embankments by soil reinforcing techniques.
	00/05/22	_	Davisian
	09/05/23	1	Revision
	10/05/23		Revision
13th	10/03/23	1	IC VISIOII
	11/05/23	1	Previous Year Questions & Answer Discussion
	12/05/23	1	Previous Year Questions & Answer Discussion
	16/05/23	1	Revision
14th	17/05/23	1	Revision
	18/05/23	1	Previous Year Questions & Answer Discussion
	19/05/23	1	Previous Year Questions & Answer Discussion
15th	23/05/23	1	Previous Year Questions & Answer Discussion