		LESSON PLAN							
			Academi	c Session :-2023 Summer					
Dis	scipline: (Civil.Engineeri	ng	Name of teaching faculty: Swagatika Dani					
	·								
Subject: Advanced Construction Techniques & Equipment (Th.3)			hniques &	Semester from Date:14/02/ 2023 to 23/05/2023					
Semester:	6th			No. of weeks: 15	4P/weel				
No. of Day	/s/ week	class allotted	: 04 period		Total				
per week(Monday	, Tuesday, Thu	ırsday,		period:				
Friday)		_			60				
MONTH	Week	DATE	DAYS/	Syllabus to be covered	NO. OF PERIODS				
		DAIL	PERIOD	CHAPTER-1:Advanced construction materials(10P)	10				
				1.1.Fibers and Plastics:	10				
				1.1.1.Type of fibers-Steel, Carbon, glass fibers, Use	'				
		14/02/2023	Tuecday	of fibers as construction material	1				
		1-7 02/ 2023	Tuesday	1.1.2.Use of fibers as construction material,					
		16/02/2023	Thureday	properties of fibers	1				
	3rd	17/02/2023		1.1.3.Type of plastics-PVC, RPVC, HDPE, FRP, GRP	1				
	<u> </u>	.,, 62, 2626	Triady	1.1.4.Colored plastic sheets, Use of plastic as					
		20/02/2023	Monday	construction material	1				
February				1.2.Artificial Timbers:					
		21/02/2023	Tuesday	1.2.1.Properties of and uses of artificial timber	1				
		23/02/2023		1.2.2.Type of artificial timber available in market	1				
	4th	24/02/2023		1.2.3.Strength of artificial timber	1				
				1.3.Miscellaneous materials:	1				
				1.3.1.Properties and uses of acoustics materials,	1				
		27/02/2023	Monday	wall claddings	ı				
				1.3.2.Properties and uses of Plasters boards, micro	1				
	5th	28/02/2023	Tuesday	silica, artificial sand, bonding agents, adhesives etc	'				
		02/03/2023	Thursday	1.3.3.Bonding agents, Adhesive etc	1				
				CHAPTER-2:Prefabrication(8P)	8				
				2.1.Introduction, necessity and scope of	1				
	1st	03/03/2023	Friday	prefabrication of buildings	-				
				2.2.History of prefabrication, current uses of	1				
		06/03/2023	Monday	prefabrication, type of prefabricated systems					
		00 (00 (000		2.3. Type of prefabricated systems, classification of	1				
		09/03/2023	Thursday	prefabrication					
	.	10/00/0000	E	2.4.Advantages and disadvantages of of	1				
	2nd	10/03/2023		prefabrication	a				
		13/03/2023	Monday	2.5. The theory and process of prefabrication	1				
		14/02/2022	T	2.6.Design principle of prefabricated systems, type	1				
		14/03/2023	ruesday	of prefabricated elements.					
MARCH		16/02/2022	Thuma desi	2.7.Type of prefabricated element, modular	1				
		16/03/2023	rnursday	coordination 2.8.Indian standard recommendation for modular					
	3rd	17/03/2023	Eridov		1				
	SIU	17/03/2023	rnudy	planning					

				CHAPTER-3: Earthquake Resistant	8
				3.1.Building configuration, Lateral load resisting	
		20/03/2023	Monday	structures	1
		21/03/2023		3.2.Building characteristics	1
			ĺ	3.3.Effect of structural irregularities-vertical	_
		23/03/2023	Thursday	irregularities, plan configuration	1
				3.4.Safety consideration during additional	
	4th	24/03/2023	Friday	construction	1
		27/03/2023	Monday	3.5.Alteration of existing buildings	1
		28/03/2023	Tuesday	3.8.Design of tension members	1
	5th	31/03/2023	Friday	3.8.Design considering strength only	1
				3.6.Additional strengthening measures in masonry	1
		03/04/2023	Monday	buildings	ı
				3.7.Corner reinforcement, lintel band, sill band,	1
		04/04/2023	Tuesday	plinth band, roof band, gable band etc	ı
	2nd	06/04/2023	Thursday	3.8.Class Test; Revision	1
				CHAPTER-4:Retrofitting of Structures(8P)	8
				4.1. Seismic retrofitting of reinforced concrete	
		10/04/2023	Monday	building	
				4.2. Seismic retrofitting of reinforced concrete	1
		11/04/2023	Tuesday	buildings	'
APRIL	3rd	13/04/2023	Thursday	4.3.Sources of weakness in RC frame buildings	1
APRIL		17/04/2023	Monday	4.4.Sources of weakneaa in RC frame buildings	1
		18/04/2023	Tuesday	4.5.Classification of retrotting techniques	1
		20/04/2023	Thursday	4.6.Classification of retrofitting techniques	1
	4th	21/04/2023	Friday	4.7.Uses of retrofitting techniques	1
		24/04/2023	Monday	4.8. Uses of retrofitting techniques	1
				CHAPTER-5:Building Services(8P)	8
		05/04/0000	Tuesday	5.1.Cold water Distribution in high rise building, lay	-1
		25/04/2023		out of installation	1
				5.2.Hot water supply-General principles for central	1
		27/04/2023	Thursday	plants- layout	1
	5th	28/04/2023	Friday	tation-Soil and waste water installation in high rise b	1
				5.4.Electrical services-(i)requirements in high rise	1
		01/05/2023	Monday	buildings. (ii)Lay of wiring type of wiring	
				5.5.(iii)Fuses and their types,(iv) Earthing and their	1
		02/05/2023	Tuesday	uses	*
				5.6.Lighting-Requirement of lighting, measurement	1
	1st	04/05/2023	Thursday	of light intensity	-
				5.7. Ventilation- Methods of ventilation (Natural	1
		08/05/2023	Monday	and artificial system of ventilation)	
		00/07/555		5.8.Mechanical services- Lift, Escalator, Elevators-	1
		09/05/2023	Tuesday	Types and uses	
MAY				CHAPTER-6:Construction and earth moving	10
		44/2=/===	- ·	equipments(10P)	
				6.1.Planning of construction equipments	1
	2nd	12/05/2023	Friday	6.2.Selection of construction equipments	1
		4 = 10 = 10 = 0		6.3.Study on earth moving equipments like drag	
		15/05/2023	ivionday	line,tractor	

1	I	46 /05 /0000	I - .	C 4 D III I I	
		16/05/2023	Tuesday	6.4.Bulldozer, power shovel	1
				6.5.Study of compactinv equipments like tamping	1
	3rd	18/05/2023	Thursday	rollers, smooth wheel rollers	ı
				6.6.Pneumatic tired rollers and vibrating	1
		22/05/2023	Monday	compactors	ı
	4th	23/05/2023	Tuesday	6.7.Uses of compacting equipments	1
				6.5. Tubular tension members	1
				6.8.Owing and operating cost-Problems	1
				6.9.Owing and operating cost-Problems	
				6.10.Class test and Revision	1
				CHAPTER-7:Soil reinforcing techniques(8P)	8
				7.1. Necessity of soil reinforcing	1
				7.2.Use of wire mesh	1
				7.3.Use of geo synthetics	1
				7.4.Strengthening of embankments	1
				7.5. Slope stabilization in cutting by soil reinforcing	1
				techniques	I
				7.6.Slope stabilization in embankments by soil	1
				reinforcing techniques	I
			EXTRA	7.7.Class Test	1
			CLASS	7.8.Revision	1