

<b>LESSON PLAN</b>					
<b>Academic Session :- 2021-2022</b>					

Discipline: Civil.Engineering			Name of teaching faculty: Chinmayee Dash			
Subject: Concrete Technology( Th.4(a))			Semester from Date:10th March 2022 to 10th June 2022			
Semester: 6th		No. of weeks: 14		4P/week		
No. of Days/ week class allotted: 04 period per week( Tuesday,					Total period: 60	
MONTH	Week	DATE	DAYS/PERIOD	Syllabus to be covered	NO. OF PERIODS AVAILABLE	
March	2nd	3/11/2022	Friday	CHAPTER-1: Concrete as a construction material(02)	1	
		3/12/2022	Saturday	1.1.Grades of Concrete 1.2 Advantages and disadvantages of concrete	1	
	3rd	3/15/2022	Tuesday	CHAPTER-2: CEMENT(04)	1	
		3/16/2022	Wednesday	2.1 Composition, hydration of cement	1	
		3/22/2022	Tuesday	water cement ratio & compressive strength test	1	
		3/23/2022	Wednesday	fineness of cement,setting time soundness,types of cement	1	
	4th	26-03-2022	Saturday	CHAPTER-3: Aggregate ,Water & admixture(06)	1	
		3/29/2022	Tuesday	3.1 Classification and characteristics of aggregate, fineness modulus, grading of aggregate	1	
		3/30/2022	Wednesday	3.2 Quality of water for mixing and curing.	1	
	April	1st	4/2/2022	Saturday	3.3 Important functions, classification of admixtures, I.S 9103	1
			4/5/2022	Tuesday	accelerating admixtures, retarding admixtures	1
		2nd	4/6/2022	Wednesday	water reducing admixtures, air containing admixtures	1
4/8/2022			Friday	CHAPTER- 4:Properties of fresh concrete(06)	1	
3rd		4/8/2022	Friday	4.1 Concept of fresh concret	1	
		4/12/2022	Tuesday	workability	1	
		4/13/2022	Wednesday	slump test, compacting factor test	1	
		4/16/2022	Saturday	V-bee consistency test	1	
4th		4/19/2022	Tuesday	flow test	1	
		4/20/2022	Wednesday	requirement of workability,I.S.1199	1	
				CHAPTER-5: Properties of hardened concrete(07)	1	
		4/22/2022	Friday	5.1 Cube and cylinder compressive strengths	1	
		4/23/2022	Saturday	flexural strength of concrete	1	
		4/26/2022	Tuesday	stress-strain and elasticity	1	
5th		4/27/2022	Wednesday	phenomena of creep and shrinkage	1	
		4/29/2022	Friday	permeability, durability of concrete	1	
		4/30/2022	Saturday	sulphate, chloride and acid attack on concrete	1	
		5/4/2022	Wednesday	efflorescence	1	
May	1st			CHAPTER-6:Concrete mix Design(05)	1	
		5/6/2022	Friday	6.1 a) Introduction	1	
		5/7/2022	Saturday	b) Data or input required for mix design	1	
	2nd	5/10/2022	Tuesday	6.2 Nominal mix concrete	1	
		5/11/2022	wednesday	design mix concrete	1	
		5/13/2022	Friday	Basic consideration for concrete mix design, Methods of proportioning	1	
	3rd			CHAPTER-7:Production of concrete(06)	1	
		5/17/2022	Tuesday	Batching of materials	1	
		5/18/2022	Wednesday	mixing of concrete materials	1	
		5/20/2022	Friday	transportation, placing of concrete	1	
		5/21/2022	Saturday	compactionof concrete (vibrators)	1	
		24-05-2022	Tuesday	Curing of concrete	1	
4th	5/25/2022	Wednesday	Formwork-requirements and types ,stripping of forms	1		
			CHAPTER-8:Inspection and Quality Control of Concrete(06)	1		
	5/27/2022	Friday	Quality control of Concrete as per I.S.456	1		
	5/28/2022	Saturday	Factors causing the variations in the quality of Concrete	1		
June	1st	5/31/2022	Tuesday	Mixing, Transporting of concrete	1	
		6/1/2022	Wednesday	Placing &curing requirements of Concrete as per I.S.456	1	
		6/3/2022	Friday	Inspection and Testing as per Clause 17 of IS:456.	1	
		6/4/2022	Saturday	Durability requirements of Concrete as per I.S:456	1	
	2nd			CHAPTER-9:-Special Concrete(06)	1	
		6/7/2022	Tuesday	Introduction to ready mix concrete	1	
6/8/2022		Wednesday	high performance concrete	1		
	6/10/2022	Friday	silica fume concrete	1		
			shot-crete concrete	1		
			Guniting	1		
			CHAPTER-10:Deterioration of concrete and its prevention(06)	1		
			Types of deterioration	1		
			prevention of concrete deterioration	1		
			corrosion of reinforcement	1		
			Effects	1		
			prevention	1		
			CHAPTER11 :-Repair technology for concrete structures(06)	1		
			Symptom, cause	1		
			prevention and remedy of defects during construction	1		
			cracking of concrete due to different reasons	1		
			Repair of cracks for different purposes	1		
			selection of techniques	1		
			polymerbased repairs, common types of repairs.	1		
			class test	1		
			Revision	1		

