			LESSC	ON PLAN		
		Ac	ademic Ses	ssion :- 2022-2023		
Discipline: Civil.Engineering Subject: Concrete Technology(TH4)				Name of teaching faculty: Anita pradhan		
				Semester from Date:14th FEB 2023 to 23rd MAY 2023		
Semester:	6th			No. of weeks: 14	4P/week	
		ass allotted: 04 p	•		Total period: 6	
МОМТН	Week	DATE	DAYS/PERI OD	Syllabus to be covered	NO. OF PERIODS	
				CHAPTER-1: Concrete as a construction material(02)	2	
	0	14/02/2023	Tuesday	Grades of Concrete	1	
	3rd	16/02/2023	Thursday	Advantages and disadvantages of concrete	1	
				CHAPTER-2: CEMENT(04)	4	
	4th	20/02/2023	Monday	Compostion, hydration of cement	1	
		21/02/2023	Tuesday	Water cement ratio & compressive strength test	1	
FEB		23/02/2023	Thursday	Finess of cement, setting time of cement	1	
		25/02/2023	Saturday	Soundness of cement, Types of cement	1	
				CHAPTER-3: Aggregate ,Water & admixture(06)	6	
	5th	27/02/2023	Monday	Classification and characteristics of aggregate	1	
		28/02/2023	Tuesday	Fineness modulus, grading of aggregate	1	
	1st	2/3/2023	Thursday	Quality of water for mixing and curing.	1	
		4/3/2022	Saturday	Important functions, classification of admixtures	1	
		6/3/2023	Monday	I.S 9103,accelerating admixtures, retarding admixtures,water reducing admixtures, air containing admixtures	1	
	2nd	9/3/2023	Thursday	I.S 9103,accelerating admixtures, retarding admixtures, water reducing admixtures, air containing admixtures	1	
				CHAPTER -4:Properties of fresh concrete(06)	6	
		11/3/2023	Saturday	Concept of fresh concrete	1	
March		13/3/2023	Monday	Workability, slump test, compacting factor test	1	

3rd 14/3/2023 Tuesday factor test 16/3/2023 Thursday V-bee consistency test,flow test 18/3/2023 Saturday V-bee consistency test,flow test 20/3/2023 Monday Requirement of workability,I.S.1199 CHAPTER-5: Properties of hardened concrete(07) Cube and cylinder compressive strengths 23/3/2023 Thursday Flexural strength of concrete	1 1 1 7 1 1
18/3/2023 Saturday V-bee consistency test,flow test 20/3/2023 Monday Requirement of workability,I.S.1199 CHAPTER-5: Properties of hardened concrete(07) Cube and cylinder compressive strengths 23/3/2023 Thursday Flexural strength of concrete	1 1 7 1
20/3/2023 Monday Requirement of workability,I.S.1199 CHAPTER-5: Properties of hardened concrete(07) 21/3/2023 Tuesday Cube and cylinder compressive strengths 23/3/2023 Thursday Flexural strength of concrete	1 7 1
CHAPTER-5: Properties of hardened concrete(07) 21/3/2023 Tuesday Cube and cylinder compressive strengths 23/3/2023 Thursday Flexural strength of concrete	7 1 1
4th 21/3/2023 Tuesday Concrete(07) 21/3/2023 Tuesday Strengths 23/3/2023 Thursday Flexural strength of concrete	1
21/3/2023 Tuesday Cube and cylinder compressive strengths 23/3/2023 Thursday Flexural strength of concrete	1
	1
25/3/2023 Saturday Stress-strain and elasticity	
27/3/2023 Monday Phenomena of creep and shrinkage	1
28/3/2023 Tuesday Permeability, durability of concrete	1
3/4/2023 Monday Sulphate, chloride and acid attack on concrete	1
4/4/2023 Tuesday Efflorescence	1
2nd CHAPTER-6:Concrete mix Design(05)	5
6/4/2023 Thursday Introduction	1
8/4/2023 Saturday Data or input required for mix design	1
10/4/2023 Monday Nominal mix concrete	1
11/4/2023 Tuesday 4.2.Buckling class of cross sections	1
3rd 13/4/2023 Monday Design mix concrete Basic consideration for concrete mix design, Methods of proportioning concrete	1
April CHAPTER-7:Production of concrete(06)	6
15/4/2023 Saturday Batching of materials	1
17/4/2023 Monday Mixing of concrete materials	1
4th 18/4/2023 Tuesday Transportation, placing of concrete	1
20/4/2023 Thursday Compactionof concrete (vibrators)	1
22/4/2023 Saturday Curing of concrete	1
24/4/2023 Monday Formwork-requirements and types ,stripping of forms	1
CHAPTER-8:Inspection and Quality Control of Concrete(06)	6
25/4/2023 Tuesday Quality control of Concrete as per I.S.456	1
27/4/2023 Thursday Factors causing the variations in the qu	1
29/4/2023 Saturday Mixing, Transporting of concrete	1
1/5/2023 Monday Placing &curing requirements of Concrete as per I.S.456	1
2/5/2023 Tuesday Inspection and Testing as per Clause 17 of IS:456.	1

1	เอเ		1	1	
	101	4/5/2023	Thursday	Durability requirements of Concrete as per I.S:456	1
May				CHAPTER-9:-Special Concrete(06)	6
		6/5/2023	Saturday	Introduction to ready mix concrete	1
	2nd	8/5/2023	Monday	high performance concrete	1
		9/5/2023	Tuesday	silica fume concrete	1
		11/5/2023	Thursday	shot-crete concrete,Guniting	1
		13/5/2023	Saturday	shot-crete concrete,Guniting	1
	3rd	15/5/2023	Monday	shot-crete concrete,Guniting	1
				CHAPTER-10:Deterioration of	6
				concrete and its prevention(06)	
		16/5/2023	Tuesday	Types of deterioration	1
		18/5/2023	Thursday	Prevention of concrete deterioration	1
		20/5/2023	Saturday	corrosion of reinforcement	1
	4th	22/5/2023	Monday	Effects ,prevention	1
		23/5/2023	Tuesday	Effects ,prevention	1
				Effects ,prevention	1
				CHAPTER11 :-Repair technology for	6
				concrete structures(06)	
- п				Symptom, cause	1
X				Prevention and remedy of defects	1
Ä				during construction	
EXTRA CLASSES				cracking of concretedue to different	
				reasons	
				Repair of cracks for different purposes	1
				Selection of techniques	1
				Polymerbased repairs, common types of repairs.	1