

Lesson Plan

Subject **CONCRETE TECHNOLOGY** (Code) **Th-4 (a)** Name of faculty **Sadega Khatun**

Semester **6TH** Class allotted **60 Periods** Branch **CIVIL ENGG**

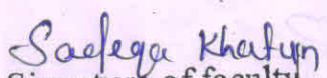
Discipline	Semester	From date: 10/03/22 To date: 10/06/22	Teaching Aid
Subject:	No. of days/ per week 4P/Week:	Theory/ Practical - Topics/Lesson	
Week	Date/Period		
1	10/03/22 to 12/03/22	<u>Ch-1</u> Grades of concrete, Advantages & disadvantages of concrete.	
	14/03/22 to 19/03/22	<u>Ch-2 Cement</u> :- composition, hydration of cement, water cement ratio & compressive strength, fineness of cement, setting time, soundness, types of cement.	
	21/03/22 to 26/03/22	<u>Ch-3</u> Classification & Characteristics of aggregate, fineness modulus, grading of aggregate, Quality of water for mixing & curing.	
4	28/03/22 to 02/04/22	Classification of admixtures, Accelerating admixtures, retarding admixture, water reducing admixture, air containing admixtures.	
	04/04/22 to 09/04/22	<u>Ch-4</u> Concept of fresh concrete, Workability, slump test, compacting factor test, v-tee consistency test & flow test, requirement of workability.	
6	11/04/22 to 16/04/22	<u>Ch-5</u> Cube & cylinder compressive strength, flexural strength of concrete, Stress-strain & elasticity. Phenomena of creep & shrinkage, Permeability	
	18/04/22 to 23/04/22	Durability of concrete, sulphate chloride & acid attack on concrete efflorescence.	

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Week	Date/Period	Theory/ Practical - Topics/Lesson	Teaching Aid
8	25/04/22 to	Ch-6 Introduction, Data or input required for	
	30/04/22	mix design Nominal mix concrete & design mix concrete.	
9	02/05/22 to	Basic consideration for concrete mix design, methods of Proporti-	
	07/05/22	-oning concrete mix.	
10	09/05/22 to	Ch-7 Batching of materials, mixing of concrete materials,	
	14/05/22	transportation, placing of concrete, compaction of concrete	
11	17/05/22 to	Curing of concrete, Formwork requirements & types	
	21/05/22	Ch-8 Quality control of concrete : Mixing, transporting, placing & curing inspection & Testing. Durability requirements	
12	23/05/22 to	Ch-9 Introduction to ready mix concrete high performance concrete, silica	
	28/05/22	fume concrete, shotcrete concrete or gunniting	
13	31/05/22 to	Ch-10 - Types of deterioration, Prevention of concrete deterioration,	
	04/06/22	corrosion, of reinforcement, effects & Prevention	
14	06/06/22 to	Ch-11 Symptom, cause & Prevention & remedy of defects during construction	
	10/06/22	cracking of concrete due to different reasons, Repair of cracks for different purposes, selection of techniques: Polymer based repairs, common types etc.	
15			


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