

Lesson Plan

Subject :- Concrete Technology (Code) TH-4

Name of faculty:- Sadeqa khatun

Semester :-6TH

Class allotted 60p

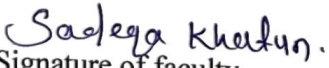
Branch :- Civil engg.

Discipline	Semester:-4 TH	From date:- 16/01/24 To date:26/04/24	Teaching Aid
Subject:	No. of days/ per week 4p/w :	Theory/ Practical –Topics/Lesson	
Week	Date/Period		

1	16/01/24 TO 20/01/24	1 Concrete as a construction material: 1.1 Grades of concrete. 1.2 Advantages and disadvantages of concrete.	White board & marker
2	22/01/24 TO 27/01/24	2 Cement: 2.1 Composition, hydration of cement, water cement ratio and compressive strength, fineness of cement, setting time, soundness, types of cement.	White board & marker
3	29/01/24 TO 03/02/24	3 Aggregate, Water and Admixtures: 3.1 Classification and characteristics of aggregate, fineness modulus, grading of aggregate, I.S.383 3.2 Quality of water for mixing and curing.	White board & marker
4	05/02/24 TO 10/02/24	3.3 Important functions, classification of admixtures, I.S 9103, accelerating admixtures, retarding admixtures, water reducing admixtures, air containing admixtures	White board & marker
5	12/02/24 TO 17/02/24	4 Properties of fresh concrete: 4.1 Concept of fresh concrete, workability, slump test, compacting factor test, V-bee consistency test and flow test, requirement of workability, I.S.1199.	White board & marker
6	19/02/24 TO 24/02/24	5 Properties of hardened concrete: 5.1 Cube and cylinder compressive strengths, flexural strength of concrete, stress-strain and elasticity, phenomena of creep and shrinkage, permeability, durability of concrete, sulphate, chloride and acid attack on concrete, efflorescence.	White board & marker
7	26/02/24 TO 02/03/24	6 Concrete mix Design 6.1 a) Introduction b) Data or input required for mix design. 6.2 Nominal mix concrete & design mix concrete. 6.3 Basic consideration for concrete mix design, Methods of proportioning	White board & marker

		concrete mix – I.S Code method of mix design(I.S.10262)	
8	04/03/24 TO 09/03/24	7 Production of concrete: 7.1 Batching of materials, mixing of concrete materials, transportation, placing of concrete, compaction of concrete (vibrators), Curing of concrete, Formwork-requirements and types ,stripping of forms. (Concepts only)	White board & marker
9	11/03/24 TO 16/03/24	10 Inspection and Quality Control of Concrete 10.1 Quality control of Concrete as per I.S.456, Factors causing the variations in the quality of concrete 10.2 Mixing, Transporting, Placing &curing requirements of Concrete as per I.S.456.	White board & marker
10	18/03/24 TO 23/03/24	10.3 Inspection and Testing as per Clause 17 of IS:456. 10.4 Durability requirements of Concrete as per I.S:456	White board & marker
11	27/03/24 TO 30/03/24	11 Special Concrete 11.1 Introduction to ready mix concrete, high performance concrete, silica fume concrete, shot-crete concrete or gunniting (Concepts only).	White board & marker
12	02/04/24 TO 06/04/24	12 Deterioration of concrete and its prevention: 12.1 Types of deterioration, prevention of concrete deterioration	White board & marker & smart board
13	08/04/24 TO 13/04/24	, corrosion of reinforcement, effects and prevention	White board & marker
14	15/04/24 TO 20/04/24	13 Repair technology for concrete structures: 13.1 Symptom, cause and prevention and remedy of defects during construction, cracking of concrete due to different reasons.	White board & marker
15	22/04/24 TO 26/04/24	Repair of cracks for different purposes, selection of techniques, polymer based repairs, common types of repairs.	White board & marker & smart board


Signature of HOD


Signature of faculty