

LESSION PLAN OF SUBJECT- Concrete Technology (Th-4a) , 4TH SEM, SUMMER-2025 (From Dt: 04/02/2025 to 17/05/2025) Name of the teaching faculty-Rasmi Gadapalla (Senior Lecturer Civil)

DATE	WEEK NO.	TOPIC TO BE COVERED	PERIODS ASSIGNED PER TOPIC	PERIODS AVAILABLE PER WEEK
04.02.25 TO 08.02.25	W-1	1.0 - Concrete as a construction material 1.1 .Grades of concrete. 1.2. Advatages abd disadvantages of concrete. 2.0-cement. 2.1-Compostion ,hydration of cement,watercement ratioand compressive strength,fitnessof cement, setting time,soundness..types of cement.	2+4	4
10.02.25 TO 15.02.25	W-2	3.0- Aggregate, water and admixtures. 3.1- Grading of aggregate, IS .383.. 3.2- Quality of water for mixing and curing.		4
17.02.25 TO 22.02.25	W-3	3.3- Imporant functions,classificationof admixture,I.S.9103,accelerating admixture,retarding admixture,water reducing. 4.0- Properties of fresh concrete. 4.1-Concept of fresh concrete,workability,slumptest	6+6	4
24.02.25 To 01.03.25	W-4	,compacting factor test ,v bee testconsistency test,and flow test,requirement of. 5.0- Properties of hardened concrete.		4
03.03.25 TO 08.03.25	W-5	5.1-Cube and cylinder compressive stength ,flextural stength of concrete ,stess and strain and elasticity ,phenomena of creep and shrinkage, permeability, durability of concrete, sulphate, chloride and acid attack on concrete, efflorescence.		4
10.03.25 TO 15.03.25	W-6	6.0- Concrete mix design. 6.1- Data or input required for mix design. 6.2- Nominal mix concrete and design mix design proporting concrete mix -I.S code method of mix design.	7+5	4
17.03.25 TO 22.03.25	W-7	7.Production of concrete: 7.1- Batching of materials ,mixing of concrete materials,transportation ,placing of concrete,compaction of concrete and curing of concrete.		4
24.03.25 TO 29.03.25	W-8			4
31.03.25 TO 05.04.25	W-9	8.0 - Inspection and quality control of concrete 8.1 - Quality control of concrete as per I.S.456 ,factors causing the variation in thequality of concrete. 8.2- per I.S.456.	6+6	4
07.04.25 TO 12.04.25	W-10	8.3 -Inspection and testing as per clause 17 of I.S 456. 8.4 -Durability requirements of concrete as per I.S 456. 9.Special Concrete		4
14.04.25 TO 19.04.25	W-11	9.1 Introduction to ready mix concrete, high performance concrete, silica fume concrete, shot-crete concrete or gunittig (Concepts only).		4
21.04.25 TO 26.04.25	W-12	10.Deterioration of concrete and its prevention: 10.1 Types of deterioration, prevention of concrete deterioration, corrosion of reinforcement, effects		4

R. Gadapalla
01/02/2025

28.04.25 TO 03.05.25	W-13	and prevention 11.Repair technology for concrete structures:	6+6	4
05.05.25 TO 10.05.25	W-14	11.1 Symptom, cause and prevention and remedy of defects during construction, cracking of concrete due to different reasons. Repair of cracks for different purposes, selection of techniques, polymer based repairs, common types of repairs.		4
12.05.25 TO 17.05.25	W-15	11.Repair technology for concrete structures: 11.1 Symptom, cause and prevention and remedy of defects during construction, cracking of concrete due to different reasons. Repair of cracks for different purposes, selection of techniques, polymer based repairs, common types of repairs.	6	4
	W-16	REVISION AND DISCUSS ON PREVIOUS YEAR QUESTION PAPER		

Rhadanalla
01/02/2025