

**LESSION PLAN OF TH4 CONCRETE TECHNOLOGY FOR 6TH SEM, CIVIL ENGG,
SUMMER 2025 W.E.F. 4.02.2025**

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WEEK NO.	TOPIC	PERIODS ASSIGNED PER TOPIC	PERIODS AVAILABLE PER WEEK
W-1	1.0 -Concrete as a construction material 1.1 .Grades of concrete. Advatages abd disadvantages of concrete.	4	1
W-2			3
W-3	2.0-cement. 2.1-Compostion ,hydration of cement,watercement ratioand compressive strength,fitnessof cement, setting time,soundness..	6	1
W-4			4
W-5	3.0- Aggregate, water and admixtures. 3.1- Grading of aggregate, IS .383.. 3.2- Quality of water for mixing and curing. 3.3- Imporant functions,classificationof admixture,I.S.9103,accelerating admixture,retarding admixture,water reducing..	5	1
W-6			2
W-7	4.0- Properties of fresh concrete. 4.1-Concept of fresh concrete,workability,slumptest ,compacting factor test ,v bee testconsistency test,and flow test,requirement of.	5	3
W-8			1
W-9	5.0-Properties of hardened concrete. 5.1-Cube and cylinder compressive strength ,flextural stength of concrete ,stess and strain and elasticity ,phenomena of creep and .	6	1
W-10			6
W-8	6.0- Concrete mix design. 6.1- Data or input required for mix design. 6.2- Nominal mix concrete and design mix design proprotiong concrete mix -I.S code method of mix design.		1
W-9			3
W-10	7.0- Production of concrete. 7.1- Batching of materials ,mixing of concrete materials,transportation ,placing of concrete,compaction of concrete and curing of concrete.	5	2
W-10			2+2 EXTRA

			1
W-11	8.0 - Inspection and quality control of concrete Quality control of concrete as per I.S.456 ,factors causing the variation in thequality of concrete. 8.1 - 8.2- per I.S.456. 8.3 -Inspection and testing as per clause 17 of I.S 456. 8.4 - Durability requirements of concrete as per I.S 456.	5	2 1+2 EXTRA
W-12	9.0- Special concrete. 9.1- Introduction to ready mix concrete ,high performance concrete ,silica fume concrte ,shot -crete concrete or gunitting	5	2 2+1 EXTRA
W-13	10.0- Deterioration of concrete and its prevenation. 10.1-Types deterioration ,prevenation of concrete deterioration ,corrision of reinforcement ,effects and prevenation	5	1 EXTRA 4
W-14	Repair techonolgy for concrete structure : 11.1 Symptom , causes and prevenation and remedy of defects during construction ,cracking of concrete due to different reasons. Repair of cracks for different purposes ,selection of techniques ,polymer based repair ,common types of repairs	8	2 EXTRA 4+2 EXTRA
W-15	REVISION AND DISCUSS ON PREVIOUS YEAR QUESTION PAPER		

Faculty Signature

HOD
Department of Civil Engg.