LESSON PLAN FOR CONCRETE TECHNOLOGY(TH-4)-SUMMER 2023, CIVIL ENGG.(6TH SEM) W.E.F-14/02/2023

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NO. OF CLASSES ALLOTED PER WEEK-4

WEEK NO.	ТОРІС	PERIODS ASSIGNED PER TOPIC	PERIODS AVAILABLE PER WEEK
W-1	Grades of concrete. Advantage & disadvantage of concrete.	4	1
W-2	Cement-Composition, hydration of cement		3
W-3	water cement ratio and compressive strength	6	4
W-4	Aggregate,water& admiture-Classification & Characteristics of aggregate,finenessmodulus		1
	importanat function, classification of admixtures IS 9103, accelarting admixtures, water reducing admixtures		2
W-5	Properties of fresh concrete-Workability,Slump cone ,Compacting factor test,V-bee consistency test & flow test	5	3
	Properties of hardened concrete-Cube & cylinder compresive strength ,flexural streng5th of concrete ,Stress-strain & elasticity ,Creep	5	1
W-6	Durability of concrete, effloroscence Concrete mix design -Nominal mix concrete & design mix concrete		4
W-7	Classification and characteristics of aggregate	6	1
W-8	Basic consideration for concrete mix design method of propertioning concrte mix -IS code 10262		1
W-9	Production of concrete -Batching material, mixing of concrete materials, transportation ,placing of concrete, Compaction of concrete ,Curing of concrete formwork requirement & types stripping of forms		3

W-10	Important functions, classification of admixtures,	6	2
	I.S 9103, accelerating admixtures, retarding admixtures		4
W-11	Inspection & quality Control of concrete, Transportation, Placing of concrete, compaction of concrete, mixing, transporting, placing & curing requirements of concrete	5	1
	Durability requirement of concrete. Introduction to ready mix concrete, High performance concrete, silica fume, Shotcrete, guiniting	5	2
	Deteriotion of concrete & its prevention -		3
W-12	Types of deterioation ,prevention of concrete deterioation ,corrosion of reinforcement, effects & prevention	. 5	2
	Repairing technology for concrete structure- Symptoms, causes & prevention & remedy of defects during construction		3
	Cracking of concrete due to different reasons,		1
W-13	Reapair of cracks for different purpose	5	4
	Selection of technique ,polymers based repairs	8	2
W-14	common types of repairs and		6
W-15	REVISION AND DISCUSS ON PREVIOUS YEAR QUESTION PAPER		