

## MAHARAJA POLYTECHNIC, GAMEI, BHUBANESWAR. LESSON PLAN

NAME OF FACULTY:-LAXMAN MAJHI
BRANCH & SEMESTER:-CIVIL ENGG& 6th SEM
TOTAL NO. OF STUDENT IN THE CLASS:-28
TOTAL NO. OF CLASSES REQUIRED:-60
SESSION:-2022-23

SUBJECT NAME: CONCRETE TECHNOLOGY

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Important functions, classification of admixtures, I.S 9103, accelerating	UNIT 5: ADMIXTURES	Quality of water for mixing and curing.	UNIT:4 WATER	grading of aggregate,I.S.383	deleterious substances in aggregates, fineness modulus,	Classification and characteristics of aggregate	UNIT:3 AGGREGATE	setting time, soundness, types of cement.	water cement ratio and compressive strength, fineness of cement,	Composition, hydration of cement,	UNIT:2 CEMENT	Advantages and disadvantages of concrete.	Grades of concrete.	MATERIAL  MATERIAL	Topics to be covered
28/03/22		25/03/22		72/03/22	18/03/22	17/03/22		16/03/22	15/03/22	14/63/22		1/03/22	10/03/22		Topics covere d on date
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Quality control of Concrete as per I.S.456, Factors causing the variations in the quality of concrete	UNIT 10: INSPECTION AND QUALITY CONTROL OF CONCRETE	when to start and time of curing ,formwork-requirements and types ,stripping of forms.	compaction methods, vibrators, curing	transportation, placing of concrete, compaction of concrete		UNIT 9: PRODUCTION OF CONCRETE:	Basic consideration for concrete mix design, Methods of proportioning concrete mix – I.S Code method of mix design(I.S.10262)	Nominal mix concrete & design mix concrete.	Introduction  Data or input required for mix design.		UNIT 8 : CONCRETE MIX DESIGN	sulphate, chloride and acid attack on concrete, efflorescence.	phenomena of creep and shrinkage, permeability, durability of concrete,	flexural strength of concrete, stress-strain and elasticity,	Cube and cylinder compressive strengths,	RDENED CONCRETE		slump test, compacting factor test,	Concept of fresh concrete, workability	UNIT 6: PROPERTIES OF FRESH CONCRETE:	
6/05/22		3/05/22	71/9017	22/04/22	21/04/22		20/04/22	9/64/22	14/04/22			13/04/22	2/44/22	11/04/22	9/04/22		8/04/22	6/04/70	5/04/22		4/64/22
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polymer based repairs, common types of repairs.	repair of cracks for different purposes, selection of techniques	remedy of defects during construction, cracking of concrete due to different reasons	Symptom, cause and prevention and.,	STRUCTURES:	UNIT 13: REPAIR TECHNOLOGY FOR CONCRETE	corrosion of reinforcement, effects and prevention.	Types of deterioration, prevention of concrete deterioration,	PREVENTION	UNIT 12: DETERIORATION OF CONCRETE AND ITS	Introduction to ready mix concrete, high performance concrete, silica fume concrete, , shot-crete concrete or gunitting	UNIT 11 : SPECIAL CONCRETE	Durability requirements of Concrete as per I.S:456.	Inspection and Testing as per Clause 17 of IS:456.	Mixing, Transporting, Placing &curing requirements of Concrete as per I.S.456.	of IS:456.
19/05/22	18/05/22	17/65/22	1405/22			15/05/22	14/05/22			12/05/22		14/05/22	10/05/22	8/05/22	7/05/22
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SIGN OF FACULTY

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