

Discipline:		Semester: 6 th	Name of the Teaching Faculty: Dibyajyoti Nayak	
Subject: CT		No of Days/Week Class Allotted: _____	Semester From date: 13.2.23 To date: 23.5.23	No. of Weeks: _____
WEEK	Class Day	Theory Topics		
1 st	1st	Introduction of Concrete Technology		
	2nd	Grade of Concrete		
	3rd	Advantages & disadvantages of Concrete		
	4th	Cement & composition of Cement		
	5th			
2 nd	1st	Types & cement		
	2nd	Hydration of Cement & Water Cement ratio.		
	3rd	Test related to Cement		
	4th	Classification of aggregate		
	5th			
3 rd	1st	fineness modulus & grading of aggregate		
	2nd	Quality of water for mixing of Concrete.		
	3rd	Curing & types of Curing.		
	4th	Important function of admixtures.		
	5th			

WEEK	Class Day	Theory Topics
4 th	1st	Classification of Admixtures.
	2nd	Overall idea about fresh concrete.
	3rd	Workability & factors affecting workability.
	4th	Slump test & Compacting factor test.
	5th	V-bee test & flow test of concrete.
5 th	1st	V-bee test & flow test of concrete.
	2nd	Properties of hardened concrete.
	3rd	Cube & cylinder compressive strengths of concrete.
	4th	flexural strength of concrete.
	5th	
6 th	1st	Stress-strain & elasticity phenomena of Creep & Shrinkage.
	2nd	Permeability, durability of concrete.
	3rd	Sulphate, chloride & acid attack on concrete.
	4th	Efflorescence
	5th	

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WEEK	Class Day	Theory Topics
7 th	1st	Assignment - 1, Class Test - 1
	2nd	Introduction to mix design.
	3rd	Data/ Input required for mix design.
	4th	Difference between Nominal mix Concrete & design mix concrete.
	5th	
8 th	1st	Basic Consideration for Concrete mix - design.
	2nd	Methods of Proportioning Concrete mix.
	3rd	Code method of mix design. (IS 10262)
	4th	Production of Concrete. Batching of materials &
	5th	Types of Batching & mixing of Concrete.
9 th	1st	Types of Batching & mixing of Concrete.
	2nd	Transportation of Concrete, Placing of Concrete.
	3rd	Compaction of Concrete with Vibrators.
	4th	form Work requirements & Its types.
	5th	

WEEK	Class Day	Theory Topics
10 th	1st	Concept of Stripping of forms.
	2nd	Quality Control of Concrete as per IS 456.
	3rd	Factors causing the variation in the quality of Concrete.
	4th	Mixing, transporting, placing & curing requirements of Concrete as per IS 456.
	5th	
11 th	1st	Inspection & Testing as per clause 17 of IS 456.
	2nd	Durability requirements of Concrete as per IS 456.
	3rd	Surprise test-2 & Assignment-2
	4th	Introduction to ready mix Concrete.
	5th	
12 th	1st	High Performance Concrete.
	2nd	Silica fume Concrete
	3rd	Shot-crete Concrete of gunniting.
	4th	Types of deterioration.
	5th	

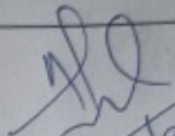
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WEEK	Class Day	Theory Topics
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13 th	1st	Prevention of Concrete deterioration.
	2nd	Corrosion of reinforcement.
	3rd	Effects of Corrosion
	4th	Prevention of Corrosion.
	5th	

14 th	1st	Repair technology for Concrete Structures.
	2nd	Sympton & Cause of Concrete.
	3rd	Prevention & remedy of defects Concrete during Construction.
	4th	Cracking of concrete due to different reasons.
	5th	

15 th	1st	Repair of cracks for different purpose.
	2nd	Selection of techniques to repairs Concrete.
	3rd	Polymer based repairs of Concrete.
	4th	Common types of repairs of Concrete.
	5th	

WEEK	Class Day	Theory Topics
16 th	1st	Repair technology for Concrete Structure.
	2nd	Previous Year question Discussion.
	3rd	
	4th	
	5th	<div style="display: flex; justify-content: space-between;"> 9/10/23  10/2/23 </div>
	1st	
	2nd	
	3rd	
	4th	
	5th	
	1st	
	2nd	
	3rd	
	4th	
	5th	