

BHARAT INSTITUTE OF ENGINEERING & TECHNOLOGY

**SIVARAM VIHAR, GHATAKESWAR HILLS
MOHADA, BERHAMPUR (GM.)**



STUDENT'S ATTENDANCE REGISTER

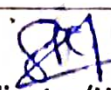
Time	9:55	10:45	11:30		
Day	10:45	11:30	12:25		
TUE			✓		
WED	✓				
THU		✓			
FRI		✓			

Year/ Session	3 rd Yr.
Semester & Branch	6 th / civil
Subject with Code	Concrete Technology (Th-4(a))
Name of the Faculty Member	Soumyaranjan Pattanayak.

B.I.E.T., COURSE PLAN

Month	Week	Class Day	Theory/Practical Topic
FEBRUARY	2 nd		<u>CHAPTER-I</u>
			CONCRETE AS A CONSTRUCTION MATERIAL :
		14.02.2023	Grades of Concrete
		15.02.2023	Advantages & disadvantages of concrete
			<u>CHAPTER-II</u>
			<u>CEMENT.</u>
		16.02.2023	Composition Hydration of cement
		17.02.2023	Water cement ratio & Compressive strength
20.02.2023	fineness of cement Setting time, Soundness		
21.02.2023	Types of cement		

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Signature of the Principal/Course Co-ordinator/HOD:  11.2.23

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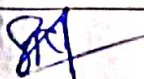
Month	Week	Class Day	Theory/Practical Topic
			<u>CHAPTER-3</u>
			<u>AGGREGATE, WATER & ADMIXTURE</u>
		22.02.2023	Classification & characteristics of aggregate, fineness modulus, grading of aggregate, IS-383
		23.02.2023	
		24.02.2023	Quality of Water for mixing & curing
		25.02.2023	Important functions, classification of admixtures IS-9103, accelerating admixtures
MARCH	1 ST	28.02.2023	Retarding admixtures, water reducing admixtures.
		1.03.2023	Aire containing admixtures

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Month	Week	Class Day	Theory/Practical Topic
MARCH	1 ST		<u>CHAPTER-4</u>
			Concept of f: <u>PROPERTIES OF FRESH CONCRETE</u>
		2-03-2023	Concept of fresh concrete
		3-03-2023	Workability
		4-03-2023	Slump test
		9-03-2023	Compacting factor test
		10-03-2023	V-bee consistency test & Flow test
		11-03-2023	Requirement of workability
			<u>CHAPTER-5</u>
			<u>PROPERTIES OF HARDENED CONCRETE</u>
		14-03-2023	Cube & Cylinder compressive strengths
		15-03-2023	flexural strength of concrete
		16-03-2023	stress - strain & elasticity
		17-03-2023	Phenomena of creep & shrinkage
18-03-2023	permeability		
21-03-2023	Durability of Concrete		



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Month	Week	Class Day	Theory/Practical Topic
		22-03-2023	Sulphate, chloride & acid attack on concrete, efflorescence
			<u>CHAPTER - 6</u>
			<u>CONCRETE MIX DESIGN</u>
		23-03-2023	Introduction
		24-03-2023	Data or Input required for mix design
		28-03-2023	Nominal mix concrete & design mix concrete
		29-03-2023	Basic consideration for concrete mix design
		31-03-2023	Methods of proportioning concrete mix - IS code method of mix design

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Month	Week	Class Day	Theory/Practical Topic
			<u>CHAPTER-7</u> <u>PRODUCTION OF CONCRETE</u>
		4.04.2023	Batching of materials
		5.04.2023	Mixing of concrete
		6.04.2023	Transportation, placing of concrete
		11.04.2023	Compaction of concrete (Vibrators)
		12.04.2023	Curing of concrete,
		14.04.2023	Formwork requirement & types Stripping of forms
			<u>CHAPTER-8</u> <u>INSPECTION & QUALITY CONTROL OF</u> <u>CONCRETE</u>
		17.04.2023	Quality control of concrete as per IS 456
		18.04.2023	Factors causing the variations in the quality of concrete

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B.I.E.T., COURSE PLAN

Month	Week	Class Day	Theory/Practical Topic
		19.04.2023	Mixing, Transporting, Placing & curing requirements of concrete as per IS 456
		20.04.2023	
		21.04.2023	- Inspection & Testing as per Clause 17 of IS 456
		24.04.2023	- Durability requirements of concrete as per IS 456:
			<u>CHAPTER-9</u> <u>SPECIAL CONCRETE</u>
		25.04.2023	Introduction to ready mix concrete
		26.04.2023	
		27.04.2023	High performance concrete
		28.04.2023	Silica fume concrete:
		1.05.2023	Shotcrete concrete (or)
		2.05.2023	Gruniting

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Month	Week	Class Day	Theory/Practical Topic
			<u>CHAPTER - 10</u>
			<u>DETERIORATION OF CONCRETE & ITS PREVENTION :-</u>
		3.05.2023	Types of deterioration
		4.05.2023	Prevention of concrete deterioration
		6.05.2023	Corrosion of reinforcement
		9.05.2023	Effect of deterioration
		10.05.2023	Prevention of corrosion of
		11.05.2023	Concrete
			<u>CHAPTER - 11</u>
			<u>REPAIR TECHNOLOGY FOR CONCRETE STRUCTURES</u>
		12.05.2023	Symptom, Cause & prevention & remedy of defects during Construction
		16.05.2023	Cracking of concrete due to different reasons..

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Month	Week	Class Day	Theory/Practical Topic
		17.05.2023	Repair of cracks for different purposes
		18.05.2023	Selection of techniques.
		19.05.2023	Polymer based repairs
		23.05.2023	Common types of repairs.

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