

2022(w)

Subject Building Materials & Construction Tech. (Code) Th.3 Name of faculty Bibhuli Bheeran Rout
 Semester 3rd Class allotted 58/75 periods Branch Civil Engg.

Lesson Plan

Discipline	Semester	From date: 15.09.2022 To date: 22.12.2022	Teaching Aid
Subject:	No. of days/ per week	Theory/ Practical - Topics/Lesson	
Week	Date/Period		
1	15.09.2022 to 16.09.2022 (1 P/W)	Section: A (Building Materials) CH.1 - STONE :- Introduction, Definition 1.1. Classification of rock, uses of stone, natural bed of stone.	White board & Marker
	19.09.2022 to 24.09.2022 (5 P/W)	1.2. Qualities of good building stone, 1.3. Dressing of stone 1.4. Characteristics of different type of stone & their uses.	"
3	26.09.2022 to 01.10.2022 (3 P/W)	CH.2 :- BRICKS :- 2.1. Brick earth - its composition 2.2. Brick making - preparation of brick earth, modelling, Drying, burning in kilns	"
	10.10.2022 to 15.10.2022 (5 P/W)	2.3. Classification of brick, size of traditional & modular bricks, Qualities of good building brick.	"
5	17.10.2022 to 22.10.2022 (5 P/W)	CH.3 Cement, Mortar & Concrete. 3.1. Cement :- Types of cements, properties of cements, - manufacturing of cement. 3.2. Importance & application of blended cement with flyash.	"
	25.10.2022 to 29.10.2022 (4 P/W)	3.3. Mortar: Definition & types of mortar. 3.4. Sources & Classification of sand, bulking of sand. 3.5. Use of gravel, morrum & fly ash as different building material.	"
7	31.10.2022 to 05.11.2022 (5 P/W)	3.6. Concrete: Definition & composition - Water content ratio, (workability, property, grading of aggregates etc). Compacting & curing of concrete.	White board & Marker


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ek	Date Period	Theory/ Practical - Topics/Lesson	Teaching A
8	07.11.2022	CH.4:- Other Construction Materials	White board
	to	4.1. Timber: Classification & Structure	✓
	12.11.2022	4.2. Seasoning & Importance	Marker
	(4P/W)	4.3. Characteristics.	
9	14.11.2022	4.4. Clay products & refractory	"
	to	4.4. properties & uses of refractory material (tiles, terracotta etc.).	
	19.11.2022	4.5. Iron & steel: Uses of cast iron, wrought iron etc.	
10	21.11.2022	CH.5:- Surface protective materials:-	A
	to	5.1. Composition of paints, enamels, varnishes.	
		5.2. Types & uses of surface-protective materials like; paints, Enamels, varnishes, Distempers, French polish & Wax polish. etc.	"
PART-B (Construction Technology)			
		CH.1:- Introduction:- 1.1. Building & classification of buildings.	"
		1.2. Different components	
		1.3. Site investigation.	
11	28.11.2022	CH.2:- Foundation:- 2.1. Concept, its purpose	White board
	to	2.2. Types (Shallow & deep)	✓
	08.12.2022	2.3. Shallow foundation & its constructional details.	Marker
(5P/W)	2.4. Deep foundation:- its method		
		CH.3:- Walls & masonry works:	
		3.1. purpose of walls.	"
		3.2. Classifications of wall (load bearing, non-load bearing)	
		3.3. Classification of walls as per materials of construction work:- Brick, Stone, Reinforced brick, reinforced concrete, etc.	"


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White Board

Lesson Plan

Subject _____ (Code) _____ Name of faculty _____
 Semester _____ Class allotted _____ Branch _____

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Week	Date/Period			
12	05.12.2022	3.4. Partition walls:		"
	to	3.5. Brick Masonry: Definition		
	10.12.2022	3.6. Bond - Meaning & necessity		
	(5 p/w)	English bond for 1 and 1-1/2 Brick thick walls, T, X & right angled corner Joints.		
		3.7. Stone masonry:		White board & Marker
		3.8. Glossary of terms - string course, corbel, cornice etc.		
		Ch.4:- Doors, Windows and Lintels.		"
		4.1. Different type of Door		
		4.2. Different type of Window		
		4.3. Purpose of use of arches and lintels.		"
		Ch-5:- Floor, Roofs & Stairs.		
		* Introduction.		
13	12.12.2022	5.1. Floor:- Type of Floor		"
	to	Finishes.		
	17.12.2022	5.2. Roofs:- Glossary term, types of roofs, concept of function.		"
	(5 p/w)			
		5.3. Stair:- Glossary terms, various types.		"
		Ch-6:- Protective, Decorative finishes, Damp & Termite Proofing		White board & Marker
		6.1. Plastering		


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Week	Date Period	Theory/ Practical - Topics/Lesson	Teaching A
		6.2. Proportion of mortars used for different plaster	white box
		6.3. painting; purpose, Type	Manya
		6.4. painting; Method, objectives	
		6.5. white washing - Colour washing	
14	19.12.2022 to 22.12.2022 (3p/w)	Damp proofing, internal & external wall. 6.6. Damp & Permite proofing materials & methods.	u
15		CH. 7 - Green Building, Energy Management & Energy Audit of buildings & project.	4
16		7.1. Concept, Introduction, Aim 7.2. Types, Energy Surveying & Audit report.	
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