

Discipline: CIVIL		Semester: 3rd	Name of the Teaching Faculty: Prateeksha Bishnoi	
Subject: Building material & Const. Technology		No of Days/Week Class Allotted: 5	Semester From date: 15.09.22 To date: 17.10.23	No. of Weeks:
WEEK	Class Day	Theory Topics		
1 st 15.09.22 to 17.09.22	1st	Stone - classification of rock, uses of stone. Natural bed of stone, Use of stone.		
	2nd	Qualities of good building stone, Dressing and characteristics.		
	3rd	Dressing of stone, characteristics of different types of stone.		
	4th	Qualities of good building stone, Dressing and characteristics.		
	5th	Qualities of good building stone, Dressing and characteristics.		
2 nd 19.09.22 to 24.09.22	1st	Brick - Brick earth - its composition.		
	2nd	Brick making - preparation of brick earth		
	3rd	Moulding, Drying, Burning in kilns.		
	4th	Classification of Bricks, size of bricks.		
	5th	Qualities of good building bricks.		
3 rd 26.09.22 to 1.10.22	1st	Cement - Types, properties, manufacturing.		
	2nd	Importance and application of blended cement with fly ash.		
	3rd	Mortar - Definition & types.		
	4th	Sources and classification of sand, Bulking of sand.		
	5th	Use of gravel, morcum and fly ash as diff. building material.		

WEEK	Class Day	Theory Topics
4th 14.10.22 to 15.10.22	1st	Concrete - Definition and composition ; water cement ratio - workability.
	2nd	Mechanical properties & grading of aggregate mixing, placing, compacting & curing.
	3rd	Timber - classification & str. of timber.
	4th	Seasoning of timber - Importance
	5th	Characteristics of good timber.
5th 17.10.22 to 22.10.22	1st	Clay products and refractory material. Def ⁿ , classification.
	2nd	Properties & uses of refractory material tiles.
	3rd	Terracotta, porcelain glazing.
	4th	Iron & steel - Uses of cast Iron, wrought iron, mild steel & tool steel.
	5th	Surface protective materials - composition of paints.
6th 24.10.22 to 29.10.22	1st	enamels, varnishes.
	2nd	Types and uses - paints, Enamels,
	3rd	Varnishes, Distempers
	4th	Emulsion, French polish.
	5th	Wax polishes.

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WEEK	Class Day	Theory Topics
7th 31.10.22 to 5.11.22	1st	Construction technology - Introduction
	2nd	Buildings and classification of buildings on occupancy.
	3rd	Different components of building
	4th	Site investigation - objectives, site reconnaissance and exploration.
	5th	Class Test.
8th 7.11.22 to 12.11.22	1st	Foundations - concept of foundation and its purpose
	2nd	Types of foundation - shallow foundation
	3rd	Deep foundation.
	4th	Shallow foundation - constructional details of: spread foundation of walls,
	5th	Thumb rules for depth and width of foundation and thickness of concrete below
9th 14.11.22 to 19.11.22	1st	Deep foundations - Pile foundation - their suitability, classification of piles
	2nd	Wall - Purpose of wall as per material
	3rd	Classification of walls - load bearing, non load bearing wall retaining walls.
	4th	Reinforced concrete, precast hollow and solid concrete block.
	5th	Partition walls - Suitability and uses.

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WEEK	Class Day	Theory Topics
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10th
21-11-22
to
26-11-22

1st	Brick masonry - Definition and different terms, Bond - meaning and necessity.
2nd	English bond for long 1-1/2 brick thick walls, T, X and right angled caucation
3rd	Stone masonry, Glossary of terms - string course, ebbel & cornice.
4th	block in. course, grouting, masonry, templates, throating, parapet, coping.
5th	Door - Glossary of terms used in doors and window

11th
28-11-22
to
5-12-22

1st	Different types of door.
2nd	Windows - Different types of windows.
3rd	Purpose of use of anchors and lintel.
4th	Floor - Glossary of term, Types of floor finishes - (oil-mosaic)
5th	Concrete flooring, terrazzo tile flooring, cast in situ. terrazzo terrazzo flooring.

12th
07-12-22
to
12-12-22

1st	Timber flooring,
2nd	Roof Glossary of terms - Types of roofs & concept and function
3rd	Stair - Glossary of terms - Stair case window, landing, stringer, nosing
4th	Baluster, rise & tread, width of case, hand rail, nosing,
5th	Various types of stair case - Straight flight, dog legged open well,

WEEK	Class Day	Theory Topics
13th 14.12.22 to 19.12.22	1st	Quarter turn, half turn, bifurcated stairs, spiral stairs, cantilever stair.
	2nd	Protective Decorative finishes - Plastering - Purpose - Types of plastering.
	3rd	Types of plaster finishes - laid finish, rough, rough, smooth cast, sand faced.
	4th	Preparation of mortars used for different plaster, Preparation of mortar, technique.
	5th	Painting - Purpose - Types of painting.
14th 21.12.22 to 26.12.22	1st	Painting - objectives - method of painting new and old surface,
	2nd	White washing - Colored washing, Distempering - internal and external.
	3rd	Damp and Termite proofing - Materials and method.
	4th	Concept of Green building -
	5th	Introduction of Energy Management and Energy Audit of Buildings.
	1st	Forms of energy management of buildings.
	2nd	Types of energy audit, Response.
	3rd	Energy surveying and audit report.
	4th	Doubt clearing class.
	5th	Test.

Test
13/12/22

APL
13/12/22