

Discipline:		Semester: 5th	Name of the Teaching Faculty	
Subject: SD-11	No of Days/Week Class Allotted: 4	Semester From date: _____ To date _____	No. of Weeks:	
WEEK	Class Day	Theory Topics		
	1st	Stone - Classification of rock, use of stone. Natural bed of stone, use of stone.		
	2nd	Reason of good building stone, Drawing and characteristics		
	3rd	Dressing of stone, characteristics of different types of stone		
	4th			
	5th			
	1st	Brick - Brick earth - H <sub>2</sub> Composition.		
	2nd	Brick making - preparation of brick earth		
	3rd	moulding, Dressing, Burning in kilns.		
	4th	Classification of Bricks, size of bricks		
	5th	Qualities of good building bricks.		
	1st	Cement - Types, Properties, manufacturing		
	2nd	Importance and application of blended Cement with fly ash		
	3rd	Mortar - Definition & types		
	4th	Science and classification of sand Basis of sand		
	5th	Use of gravel, macadam and flagstone as different building materials		

WEEK	Class Day	Theory Topics
	1st	Concrete - Deterioration and composition - value of cement ratios - workability.
	2nd	mechanical properties of grading of aggregate mortar, plastering, Compacting & Curing
	3rd	Timber - classification & etc. of timber
	4th	Seasoning of timber - Importance.
	5th	Characteristics of good timber.
	1st	clay products and refractory materials Defn. 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.
	1st	enamel, varnishes
	2nd	Types and uses - paints, Enamels
	3rd	Varnishes, Distempers.
	4th	Emulsion, French polish.
	5th	Wax polish

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WEEK	Class Day	Theory Topics
	1st	Construction technology - Introduction
	2nd	Buildings and classification of buildings on occupancy
	3rd	Different components of building
	4th	site investigation, objectives, site map, noise exploration.
	5th	class test.
	1st	Foundations. Concept of foundation and its purpose
	2nd	Types of foundation - shallow foundation
	3rd	Deep foundation.
	4th	shallow foundation - constructional details up to special foundation of walls
	5th	Thumb rules for depth and width of foundation and thickness of concrete below
	1st	Deep foundations, pile foundation, their history, classification of piles
	2nd	wall - Purpose of walls as per material
	3rd	Classification of walls - load bearing, non load bearing wall masonry walls
	4th	Reinforced concrete, prestressed concrete and solid concrete block.
	5th	Partition walls - suitability and uses

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1st Brick masonry - Different and different terms But - masonry and masonry.

2nd English chisel for level end. 1-1/2 brick thick walls, T-N and right mull corner

3rd Stone masonry. Glossary of terms. String course Corbel. Corus.

4th block in - course, grading, moulding. complete, thirteenth Parapet, Company

5th Door - Glossary of terms used indoors and windows.

1st Different types of door.

2nd Windows - Different types windows

3rd Purpose of use of - arches and lintels.

4th Floor - Glossary of terms, types of floor finishes - Cast-in-site.

5th Concrete flooring, free floorings Cast in the concrete floor

1st Timber flooring

2nd Roof Glossary of terms, types, types, content and function.

3rd Stair, Glossary of terms - stair use winder, landing stringers, nosings

4th Balustrade when with or case hand rail, main

5th various types of stair case binding open well.

WEEK	Class Day	Theory Topics
	1st	Acute tension chart tension in in spiral staircase, construction
	2nd	Protein <sup>beam</sup> <sup>stair</sup> Plaster - Principle - types of plaster
	3rd	Types of plaster and their Plaster characteristics of mortar
	4th	Part of mortar used for plaster
	5th	Painting - Principle & Types
	1st	Painting objectives, materials
	2nd	White washing - Blower work
	3rd	Decorative plastering - materials
	4th	Concepts of Acoustic ceiling
	5th	Types of Acoustic materials
	1st	Aims of energy management
	2nd	Types of energy conservation
	3rd	Energy saving and audit report
	4th	Don't energy class
	5th	Text