

LESSON PLAN					
Academic Session :- 2023-2024					
Subject: Building Material and Construction Technology(Th.3)			Semester from Date:01/08/2023to 30/11/2023		
Semester: 3rd	No. of weeks:14		Teaching faculty: Swagatika Dani		5P/week
No. of Days/week class allotted:05 Period per week( Monday, Tuesday, Wednesday, Thursday, Friday: 1p.each)					Total period: 75
MONTH	Week	DATE	DAYS/PERIOD	Syllabus to be covered	NO. OF PERIODS AVAILABLE
				PART:A( BUILDING MATERIALS)	
AUGUST				CHAPTER-STONE-5P	5
	1st	01.08.2023	Tues	1.1 Classification of rock, uses of stones, natural bed of stones	1
		02.08.2023	Wed	1.2 Quality of good building stones	1
		03.08.2023	Thur	1.3 Dressing of stones	1
		04.08.2023	Fri	1.4 Characteristics of different types of stones	1
	2nd	07.08.2023	Mon	1.5 Uses of different type of stones	1
				CHAPTER-2-BRICKS-6P	
		08.08.2023	Tues	2.1. Brick earth- Its composition	1
		09.08.2023	Wed	2.2.Brick making- preparation of brick earth	1
		10.08.2023	Thu	2.3.Moulding, Drying	1
		11.08.2023	Fri	2.4.Burning in kilns(continuous process)	1
	3rd	14.08.2023	Mon	2.5.Classification of bricks	
		16.08.2023	Wed	2.6 Quality of good building bricks	1
				CHAPTER-3- CEMENT MORTAR AND CONCRETE-7P	7
		17.08.2023	Thu	3.1. Cement: Type of cement, Properties, manufacturing of cement	1
		18.08.2023	Fri	3.2.Importance and application of blended cement with fly ash and blast furnace slag	1
	4th	21.08.2023	Mon	3.3.Mortar: Defination and type of mortar	1
		22.08.2023	Tues	3.4.Source and classification of sand, bulking of sand	1
		23.08.2023	Wed	3.5.Use of gravel, morrum and fly ash as different building material	1
		24.08.2023	Thu	3.6. Concrete: Defination and composition, Water cement ratio-Workability,mechanical properties	1
		25.08.2023	Fri	3.7.grading of aggregates, mixing and placing, curing of concrete	1
				CHAPTER-4-OTHER CONSTRUCTION MATERIAL-7P	7
		28.08.2023	Mon	4.1.Timber: Classification and Structure	1

	5th	29.08.2023	Tues	4.2.Seasoning of timber- Importance	1
		31.08.2023	Thu	4.3.Characteristics of good timber.	1
	1st	01.09.2023	Fri	4.4.Clay products and refractory materials- Definition and Classification	1
	2nd	04.09.2023	Mon	4.5.Property and uses of refractory material- tiles , terracotta	1
		05.09.2023	Tues	4.6. Porcelain glazing; Iron and steel. Uses of cast iron, wrought iron, mild steel and tor steel	1
		07.09.2023	Thurs	Class test	1
				<b>CHAPTER-5-SURFACE PROTECTIVE MATERIAL-5P</b>	5
		08.09.2023	Fri	5.1.Composition of paint, enamels	1
	3rd	11.09.2023	Mon	5.2.Composition of varnishes	1
		12.09.2023	Tues	5.3. Type and uses of surface protective material like paints, Enamels	1
		13.09.2023	Wed	5.4.Varnishes, Distempers	1
		14.09.2023	Thurs	5.5.Emulsion, french polish and Wax Polish	1
				<b>PART:B(CONSTRUCTION TECHNOLOGY)</b>	
				<b>CHAPTER-1-INTRODUCTION-2P</b>	2
		15.09.2023	Fri	1.1.Building and classification of buildings based on occupancy	1
	4th	18.09.2023	Mon	1.2.Different components of a building, site investigation- objectives, site reconnaissance and exploration	1
				<b>CHAPTER-2- FOUNDATION-4P</b>	4
		21.09.2023	Thur	2.1.Concept of foundation and its purpose	1
		22.09.2023	Fri	2.2. Types of foundations- shallow and deep	1
		25.09.2023	Mon	2.3.Shallow foundation-construction details of: Spread foundations for walls, thumb rule for depth and width of foundation and thickness of concrete block	1
		26.09.2023	Tues	2.4.Deep foundations: Pile foundations- their suitability, classification of piles based on materials, function and method of installation	1
				<b>CHAPTER-3-WALLS AND MASONRY WORKS- 6P</b>	
		27.09.2023	Wed	3.1.Purpose of walls, classification of walls-load bearing, non-load bearing walls, retaining walls.	1

SEPTEMBER	5th	28.09.2023	Thur	3.2. Classification of walls as per material of construction:	1
OCTOBER	1st	03.10.2023	Tues	3.3.Partition walls: Suitability and uses of brick and	1
				3.4.Brick masonry: Definition of different terms, Bond-meaning	
		04.10.2023	Wed		1
		05.10.2023	Thur	3.5.Stone masonry	1
				3.6.Glossary of terms- string course, corbel, cornice, block-in-co	
	2nd	06.10.2023	Fri		1
				<b>CHAPTER-4-DOORS, WINDOWS AND LINTELS-4P</b>	4
		09.10.2023	Mon	4.1.Glossary of terms used in doors and windows	1
		10.10.2023	Tues	4.2.Doors-different types of doors	1
		11.10.2023	Wed	4.3. Windows-different types of windows	1
		12.10.2023	Thurs	4.4.Purpose of use of arches and lintels	1
				<b>CHAPTERS:5. FLOORS, ROOF AND STAIRS-5P</b>	5
		13.10.2023	Fri	5.1.Floors: Glossary of terms, type of floor finishes- cast-in-situ, concrete flooring(monolithic, bonded), terrazzo tile flooring, cast in situTerrazzo flooring,	1
		16.10.2023	Mon	5.2.Roofs: Glossary of terms, Types of roofs, concept and function of flat, pitched, hipped and sloped roofs	1
		17.10.2023	Tues	5.3. Stairs: Glossary of terms; staircase, winder, Landing, stringer, newel, baluster, rise,tread, width of stair case, hand rail, nosing, head room, mumty	1
	3rd	18.10.2023	Wed	5.4.Type of stair case- straight flight, dog legged, open well, quarter turn	1
		19.10.2023	Thur	5.5. Half turn( newel and geometrical stairs), bifurcated stair, spiral stair, cantilever stair, tread, riser stair.	1
				<b>CHAPTER-6-Protective, Decorative Finishes, Damp and Termite proofing-5P</b>	5
		20.10.2023	Fri	of plaster finishes- Grit finish, rough cast, smooth	1
	5th	30.10.2023	Mon	plasters, prepatation of mortars, techniques of	1
		31.10.2023	Tues	objective- methods of painting new and old wall	1
	1st	01.11.2023	Wed	internal and external walls	1
		02.11.2023	Thur	6.5. Damp and Termite proofing- Materials and	1

NOVEMBER				<b>CHAPTER-7-Green Buildings, Energy Management and Energy Audit of Buildings and project- 4P</b>	4
		03.11.2023	Fri	8.1. Concept of green building, Introduction to Energy Management and Energy Audit of Buildings	1
	2nd	06.11.2023	Mon	8.2. Aims of energy management of buildings.	1
		07.11.2023	Tues	8.3.Types of energy audit, Response energy audit questionnaire	1
		08.11.2023	Wed	8.4. Energy surveying and audit report	1
		09.11.2023	Thur	REVISION CLASS	1
		10.11.2023	Fri	REVISION CLASS	1
	3rd	13.11.2023	Mon	REVISION CLASS	1
		14.11.2023	Tues	REVISION CLASS	1
		15.11.2023	Wed	REVISION CLASS	1
		16.11.2023	Thurs	REVISION CLASS	1
		17.11.2023	Fri	REVISION CLASS	1
	4th	20.11.2023	Mon	REVISION CLASS	1
		21.11.2023	Tues	REVISION CLASS	1
		22.11.2023	Wed	REVISION CLASS	1
		23.11.2023	Thur	REVISION CLASS	1
		24.11.2023	Fri	REVISION CLASS	1
	5th	28.11.2023	Tues	REVISION CLASS	1
		29.11.2023	Wed	REVISION CLASS	1
		30.11.2023	Thur	REVISION CLASS	1