		LESSON PLAN								
	Academic Session :- 2022-2023									
Subject: Technolo			d Construction	Semester from Date:15/09/2022to 22/12/2022						
Semeste	Semester: 3rd No.		:14	Teaching faculty:C.M.Swarupa Nanda	5P/week					
No. of Day	s/week	class allotted:05	Period per week( N	Monday, Tuesday, Wednesday, Thursday, Friday: 1p.each)	Total period: 75					
MONTH	Week	DATE	DAYS/PERIO D	Syllabus to be covered	NO. OF PERIODS AVAILABLE					
				PART:A( BUILDING MATERIALS)						
				CHAPTER-STONE-5P						
	3rd	15.9.2022	Thursday	1.1 Classification of rock, uses of stones, natural bed of stones	1					
		16.9.2022	Friday	1.2 Quality of good building stones	1					
	4th	19.9.2022	Monday	1.3 Dressing of stones	1					
		20.9.2022	Tuesday	1.4 Characteristics of different types of stones	1					
S		21.9.2022	Wednesday	1.5 Uses of different type of stones	1					
E				CHAPTER-2-BRICKS-6P						
P T E		22.9.2022	Thursday	2.1. Brick earth- Its composition	1					
M		23.9.2022	Friday	2.2.Brick making- preparation of brick earth	1					
B E	5th	26.9.2022	Monday	2.3.Moulding, Drying	1					
R		27.9.2022	Tuesday	2.4.Burning in kilns(continuous process)	1					
		28.9.2022	Wednesday	2.5.Classification of bricks						
		29.9.2022	Thursday	2.6.size of traditional and modular bricks, quality of good building bricks	1					
				CHAPTER-3- CEMENT MORTAR AND CONCRETE-7P						
		30.9.2022	Friday	3.1. Cement: Type of cement, Properties, manufacturing of cement	1					
		10.10.2022	Monday	3.2.Importance and application of blended cement with fly ash and blast furnace slag	1					

1 11.10.2022 Tuesday 3.3. Mortar: Defination and type of mortar Wednesday 1 3rd 3.4. Source and classification of sand, bulking of sand 12.10.2022 3.5.Use of gravel, morrum and fly ash as different 1 Thursday building material 13.10.2022 3.6. Concrete: Defination and composition, Water 1 14.10.2022 Friday cement ratio-Workability, mechanical properties 3.7.grading of aggregates, mixing and placing, curing 1 17.10.2022 Monday of concrete 0 **CHAPTER-4-OTHER CONSTRUCTION MATERIAL-7P** C Τ 18.10.2022 Tuesday 4.1.Timber: Classification and Structure 4th 0 Wednesday 1 В 19.10.2022 4.2. Seasoning of timber- Importance Ε 1 4.3. Characteristics of good timber. 20.10.2022 Thursday R 4.4.Clay products and refractory materials- Definition 1 and Classification 21.10.2022 Friday 4.5. Property and uses of refractory material-tiles, 1 terracotta 25.10.2022 Tuesday Wednesday 1 4.6. Porcelain glazing; Iron and steel. Uses of cast iron, wrought iron, mild steel and tor steel 26.10.2022 5th 1 27.10.2022 Thursday Class test CHAPTER-5-SURFACE PROTECTIVE **MATERIAL-5P** 1 Friday 28.10.2022 5.1.Composition of paint, enamels Last 1 Monday 5.2. Composition of varnishes 31.10.2022 5.3. Type and uses of surface protective material like 1 1.11.2022 Tuesday paints, Enamels Wednesday 1 5.4. Varnishes, Distempers 2.11.2022 3.11.2022 Thursday 5.5.Emulsion, french polish and Wax Polish

N O V E M B E R

1			PART:B(CONSTRUCTION TECHNOLOGY)	
			CHAPTER-1-INTRODUCTION-2P	
			CHAIL LEN I INTRODUCTION ET	
			1.1.Building and classification of buildings based on	1
	4.11.2022	Friday	occupancy	
		_	1.2.Different components of a building, site	
			investigation- objectives, site reconnaissance and	1
	7.11.2022	Monday	exploration	
			CHAPTER-2- FOUNDATION-4P	
				1
	9.11.2022	Wednesday	2.1.Concept of foundation and its purpose	1
2ND				1
	10.11.2022	Thursday	2.2. Types of foundations- shallow and deep	1
			2.3.Shallow foundation-construction details of:	
			Spread foundations for walls, thumb rule for depth	1
			and width of foundation and thickness of concrete	
	11.11.2022	Friday	block	
			2.4.Deep foundations: Pile foundations- their	
	14.11.2022	Monday	suitability, classification of piles based on materials, function and method of installation	1
	14.11.2022	lvioriuay	CHAPTER-3-WALLS AND MASONRY WORKS- 6P	1
			CHAPTER-3-WALLS AND MASONNT WORKS- OF	
				1
			3.1.Purpose of walls, classification of walls-load	1
	15.11.2022	Tuesday	bearing, non-load bearing walls, retaining walls.	
3RD		l	3.2. Classification of walls as per material of	_
		Wednesday	construction:	1
	16.11.2022			
			3.3.Partition walls: Suitability and uses of brick and	
	17.11.2022	Thursday	wooden partition walls	1
			3.4.Brick masonry: Definition of different terms,	
			Bond-meaning and necessity: English bond for 1and	
			1-1/2 brick thick walls. T, X and right angled corner	
			junctions, Thickness for 1and 1-1/2 brick square	
	18.11.2022	Friday	pillars in English bond	1
	21.11.2022	Monday	3.5.Stone masonry	1

	22.11.2022	Tuesday	3.6.Glossary of terms- string course, corbel, cornice, block-in-course, grounting, mouldings, templates, throating, through stones, parapet, coping, pilaster and buttress	1
4711		,	CHAPTER-4-DOORS, WINDOWS AND LINTELS-4P	
4TH			CHAITER 4 BOOKS, WINDOWS AND ENVIEW 4	
	23.11.2022	Wednesday	4.1.Glossary of terms used in doors and windows	1
	24.11.2022	Thursday	4.2.Doors-different types of doors	1
	25.11.2022	Friday	4.3. Windows-different types of windows	1
	28.11.2022	Monday	4.4.Purpose of use of arches and lintels	1
			CHAPTERS:5. FLOORS, ROOF AND STAIRS-5P	
5TH			5.1.Floors: Glossary of terms, type of floor finishes-cast-in-situ, concrete flooring(monolithic, bonded), terrazzo tile flooring, cast in situTerrazzo flooring,	
	29.11.2022	Tuesday	timber flooring(concept only)	1
	30.11.2022	Wednesday	5.2.Roofs: Glossary of terms, Types of roofs, concept and function of flat, pitched, hipped and sloped roofs	1
1ST	1.12.2022	Thursday	5.3. Stairs: Glossary of terms; staircase, winder, Landing, stringer, newel, baluster, rise, tread, width of stair case, hand rail, nosing, head room, mumty room.	1
	2.12.2022	Friday	5.4.Type of stair case- straight flight, dog legged, open well, quarter turn	1
	5.12.2022	Monday	5.5. Half turn( newel and geometrical stairs), bifurcated stair, spiral stair, cantilever stair, tread, riser stair.	1
			CHAPTER-6-Protective, Decorative Finishes, Damp and Termite proofing-5P	

6.1. Plastering- purpose- Types of plastering, Types of plaster finishes- Grit finish, rough cast, smooth cast, sand faced, pebble dash, acoustic plastering and 6.12.2022 Tuesday plain plaster etc. 1 2nd 6.2. Proportion of mortars used for different plasters, prepation of mortars, techniques of plastering and 7.12.2022 Wednesday curing 1 D Ε C 6.3. Ponting- purpose- Types of pointing, Painting-Ε objective- methods of painting new and old wall M surfaces, wood surface and metal surfaces- powder В coating and spray painting on metal surfaces. 8.12.2022 Thursday 1 Ε R 6.4. White wshing- Colour washing- Distempering-Friday internal and external walls 9.12.2022 1 6.5. Damp and Termite proofing- Materials and Methods. 12.12.2022 Monday 1 **CHAPTER-7-Green Buildings, Energy Management** and Energy Audit of Buildings and project- 4P 3rd 8.1. Concept of green building, Introduction to 13.12.2022 Tuesday Energy Management and Energy Audit of Buildings 1 8.2. Aims of energy management of buildings. 14.12.2022 Wednesday 1 8.3. Types of energy audit, Response energy audit 15.12.2022 Thursday questionnaire 1 Friday 16.12.2022 8.4. Energy surveying and audit report 1