

LESSON PLAN
Academic Session :- 2021-2022
Subject: BMBC Subject Code:- TH3

Total Period :- 75per Sem
Theory :- 5P/week
SEMESTER- 3RD (SECTION A)

Teacher :- LAXMIPRIYA SWAIN

MONTH	DATE	DAYS	SYLLABUS TO BE COVERED	NO. OF PERIODS AVAILABLE
			Stone -5P	
OCTOBER	11/1/2021	MONDAY	1.0 Classification of rock, uses of stone, natural bed of stone, 1.1 Qualities of good building stone,	2
	11/8/2021	MONDAY	1.2 Dressing of stone 1.3 Characteristics of different types of stone and their uses	2
	11/15/2021	MONDAY	1.3 Characteristics of different types of stone and their uses	1
			Bricks -6P	
	11/15/2021	MONDAY	2.1 Brick earth – its composition	1
	11/22/2021	MONDAY	2.1 Brick earth – its composition 2.2 Brick making – Preparation of brick earth, Moulding, Drying, Burning in kilns (continuous Process)	2
	11/29/2021	MONDAY	2.3 Classification of bricks, size of traditional and modular bricks, qualities of good building bricks	2
DECEMBER	12/6/2021	MONDAY	2.3 Classification of bricks, size of traditional and modular bricks, qualities of good building bricks	1
			Cement, Mortar and Concrete -7P	
	12/6/2021	MONDAY	3.1 Cement: Types of cements, Properties of cements, Manufacturing of cement	1
	12/13/2021	MONDAY	3.2 Importance and application of blended cement with fly ash and blast furnace slag.Mortar: Definition and types of mortar	2
	12/20/2021	MONDAY	3.3 Mortar: Definition and types of mortar 3.4 Sources and classification of sand, Bulking of sand	2
	12/27/2021	MONDAY	3.5 Use of gravel, morrum and fly ash as different building material & 3.6 Concrete: Definition and composition- Water cement ratio- Workability	2
			Other Construction Materials -7P	
JANUARY	1/3/2022	MONDAY	4.1 Timber: Classification and Structure of timber. 4.2 Seasoning of timber – Importance.	2
	1/7/2022	FRIDAY	4.3 Characteristics of good timber.	1
	9 MORE CLASSES REQUIRED			
			4.3 Concept and uses of – Ply wood, particle board, laminated board, straw board – Eco board.	1
			4.4 Advanced building materials as substitutes to timber – Steel, Aluminum, PVC, FRP, UPVC	2

		4.5 Iron and Steel: Uses of cast iron, wrought iron, mild steel and tor steel	1	
		SURFACE PROTECTIVE MATERIALS:(5P)		
		5.1 Composition of Paints, enamels, varnishes.	1	
		5.2 Types and uses of surface protective materials	2	
		Paints, Enamels, Varnishes, Distempers Emulsion, French polish and Wax Polish.	2	
		PART: B (CONSTRUCTIONS TECHNOLOGY)		
		Introduction -2P		
	10/26/2021	TUESDAY	1.1 Buildings and classification of buildings based on occupancy &	1
	10/28/2021	THURSDAY	1.2 Different components of a building.	1
			Foundations -4P	
	10/29/2021	FRIDAY	2.1 Concept of foundation and its purpose & 2.2Types of foundations – shallow and deep	1
	11/2/2021	TUESDAY	2.3 Shallow foundation-constructural details of : Spread foundations for walls, thumb rules for depth and width of foundation and thickness of concrete block	1
	11/5/2021	FRIDAY	2.4 Deep foundations : Pile foundations-their suitability, classification of piles based on materials, function and method of installation.	1
	11/9/2021	TUESDAY	2.4 Deep foundations : Pile foundations-their suitability, classification of piles based on materials, function and method of installation.	1
			Walls & Masonry Works :6P	
	11/11/2021	THURSDAY	3.1 Purpose of walls 3.2 Classification of walls – load bearing, non-load bearing walls, retaining walls.	1
	11/12/2021	FRIDAY	3.3 Classification of walls as per materials of construction: brick, stone, reinforced brick, reinforced concrete, precast, hollow and solid concrete block and composite masonry walls (Concept Only).	1
	11/16/2021	TUESDAY	3.4 Partition Walls : Suitability and uses of brick and wooden partition walls & Brick masonry : Definition of different terms	1
	11/18/2021	THURSDAY	3.6 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 pillars in English bond &	1
	11/23/2021	TUESDAY	3.7 Stone Masonry :	1
	11/25/2021	THURSDAY	3.8 Glossary of terms –String course, corbel, cornice, block-in-course, grouting, mouldings, templates, throating, through stones, parapet, coping, pilaster and buttress	1
			Doors, Windows And Lintels -4P	
	11/26/2021	FRIDAY	4.1 Glossary of terms used in doors and windows	1
	11/30/2021	TUESDAY	4.2 Doors – different types of doors	1
	12/2/2021	THURSDAY	4.3 Windows – different types of windows	1
	12/3/2021	FRIDAY	4.4 Purpose of use of arches and lintels	1
			Floors, Roofs and Stairs -5P	
	12/7/2021	TUESDAY	5.1Floors: Glossary of terms ,Types of floor finishes – cast-in-	1

	12/9/2021	THURSDAY	4.1 Roofs: Glossary of terms, Types of roofs, concept and function of flat, pitched, hipped and Sloped roofs	1
	12/10/2021	FRIDAY	5.3 Stairs: Glossary of terms; Stair case, winder, landing, stringer, newel, baluster, rise, tread, width of stair case, hand rail, nosing.	1
	12/14/2021	TUESDAY	5.4 Various types of stair case – straight flight, dog legged, open well, quarter turn, half turn (newel and geometrical stairs), bifurcated stair, spiral stair.	1
	12/16/2021	THURSDAY	5.4 Various types of stair case – straight flight, dog legged, open well, quarter turn, half turn (newel and geometrical stairs), bifurcated stair, spiral stair.	1
			PROTECTIVE, DECORATIVE FINISHES AND TERMITE PROOFING: 5P	
DECEMBER	12/17/2021	FRIDAY	6.1 Plastering – purpose – Types of plastering Types of plaster finishes – Grit finish, rough cast, smooth cast, sand faced, pebble dash, acoustic plastering and plain plaster etc.	1
	12/21/2021	TUESDAY	6.2 Proportion of mortars used for different plasters, preparation of mortars, techniques of plastering and curing & Pointing – purpose –Types of pointing	1
	12/23/2021	THURSDAY	6.4 Painting – objectives – method of painting new and old wall surfaces, wood surface and metal surfaces – powder coating and spray painting on metal surfaces.	1
	12/24/2021	FRIDAY	6.5 White washing – Colour washing – Distempering – internal and external walls.	1
	12/28/2021	TUESDAY	6.6 Termite proofing – Methods.	1
			GREEN BUILDINGS, ENERGY MANAGEMENT AND ENERGY AUDIT OF BUILDINGS & PROJECT-4P	
	12/30/2021	THURSDAY	8.1 Concept of green building & Introduction to Energy Management and Energy Audit of Buildings.	1
	12/31/2021	FRIDAY	8.3 Aims of energy management of buildings.	1
	1/4/2022	TUESDAY	8.4 Types of energy audit, Response energy audit questionnaire	1
JANUARY	1/6/2022	THURSDAY	8.5 Energy surveying and audit report.	1