

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

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

**Teacher :- SAILAJA BHUYAN**

MONTH	DATE	DAYS	SYLLABUS TO BE COVERED	NO. OF PERIODS AVAILABLE	
			<b>Stone -5P</b>		
<b>OCTOBER</b>	10/4/2021	Monday	1.0 Classification of rock, uses of stone, natural bed of stone,	1	
	10/7/2021	Thursday	1.1 Qualities of good building stone,	1	
	10/21/2021	Thursday	1.2 Dressing of stone	1	
	10/25/2021	Monday	1.3 Characteristics of different types of stone and their uses	1	
	10/28/2021	Thursday	1.3 Characteristics of different types of stone and their uses	1	
			<b>Bricks -6P</b>		
	11/1/2021	Monday	2.1 Brick earth – its composition	1	
	11/8/2021	Monday	2.1 Brick earth – its composition	1	
	11/11/2021	Thursday	2.2 Brick making – Preparation of brick earth, Moulding, Drying, Burning in kilns (continuous Process)	1	
	11/15/2021	Monday	2.3 Classification of bricks, size of traditional and modular bricks, qualities of good building bricks	1	
	11/18/2021	Thursday	2.3 Classification of bricks, size of traditional and modular bricks, qualities of good building bricks	1	
	11/22/2021	Monday	2.3 Classification of bricks, size of traditional and modular bricks, qualities of good building bricks	1	
			<b>Cement, Mortar and Concrete -7P</b>		
	11/25/2021	Thursday	3.1 Cement: Types of cements, Properties of cements, Manufacturing of cement	1	
	11/29/2021	Monday	3.2 Importance and application of blended cement with fly ash and blast furnace slag.Mortar: Definition and types of mortar	1	
<b>NOVEMBER</b>	12/2/2021	Thursday	3.2 Importance and application of blended cement with fly ash and blast furnace slag.Mortar: Definition and types of mortar	1	
	12/6/2021	Monday	3.3 Mortar: Definition and types of mortar	1	
	12/9/2021	Thursday	3.4 Sources and classification of sand, Bulking of sand	1	
	12/13/2021	Monday	3.5 Use of gravel, morrum and fly ash as different building material	1	
	12/16/2021	Thursday	& 3.6 Concrete: Definition and composition- Water cement ratio-Workability	1	
				<b>Other Construction Materials -7P</b>	
	12/20/2021	Monday	4.1 Timber: Classification and Structure of timber.	1	
	12/23/2021	Thursday	4.2 Seasoning of timber – Importance.	1	
	12/27/2021	Monday	4.3 Characteristics of good timber.	1	
	12/30/2021	Thursday	4.3 Concept and uses of – Ply wood, particle board, laminated board, straw board – Eco board.	1	
1/3/2022	Monday	4.3 Concept and uses of – Ply wood, particle board, laminated board, straw board – Eco board.	1		

	12/30/2021	Thursday	4.4 Advanced building materials as substitutes to timber – Steel, Aluminum, PVC, FRP, UPVC	1	
<b>DECEMBER</b>	12/31/2021	Friday	4.5 Iron and Steel: Uses of cast iron, wrought iron, mild steel and tor steel	1	
				<b>SURFACE PROTECTIVE MATERIALS: (5P)</b>	
	1/5/2022	Wednesday	5.1 Composition of Paints, enamels, varnishes.	1	
	1/6/2022	Thursday	5.2 Types and uses of surface protective materials	1	
	1/7/2022	Friday	Paints, Enamels, Varnishes, Distempers	1	
	<b>2 MORE CLASSES REQUIRED</b>				
				Emulsion, French polish and Wax Polish.	1
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				<b>PART: B (CONSTRUCTIONS TECHNOLOGY)</b>	
				<b>Introduction -2P</b>	
	10/7/2021	Thursday	1.1 Buildings and classification of buildings based on occupancy	1	
	10/8/2021	Friday	1.2 Different components of a building.	1	
				<b>Foundations -4P</b>	
	10/21/2021	Thursday	2.1 Concept of foundation and its purpose & 2.2Types of foundations – shallow and deep	1	
	10/22/2021	Friday	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	
	10/27/2021	Wednesday	2.4 Deep foundations : Pile foundations-their suitability, classification of piles based on materials, function and method of installation.	1	
	10/28/2021	Thursday	2.4 Deep foundations : Pile foundations-their suitability, classification of piles based on materials, function and method of installation.	1	
				<b>Walls &amp; Masonry Works :6P</b>	
	10/29/2021	Friday	3.1 Purpose of walls 3.2 Classification of walls – load bearing, non-load bearing walls, retaining walls.	1	
	11/3/2021	Wednesday	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	
	11/5/2021	Friday	3.4 Partition Walls : Suitability and uses of brick and wooden partition walls & Brick masonry : Definition of different terms	1	
	11/10/2021	Wednesday	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	
	11/11/2021	Thursday	3.7 Stone Masonry :	1	
	11/12/2021	Friday	3.8 Glossary of terms –String course, corbel, cornice, block-in-course, grouting, mouldings, templates, throating, through stones, parapet, coping, pilaster and buttress	1	
				<b>Doors, Windows And Lintels -4P</b>	
	11/17/2021	Wednesday	4.1 Glossary of terms used in doors and windows	1	
11/18/2021	Thursday	4.2 Doors – different types of doors	1		

JANUARY	11/24/2021	Wednesday	4.3 Windows – different types of windows	1	
	11/25/2021	Thursday	4.4 Purpose of use of arches and lintels	1	
				Floors, Roofs and Stairs -5P	
	11/26/2021	Friday	5.1 Floors: Glossary of terms ,Types of floor finishes – cast-in-situ, concrete flooring(monolithic, bonded), terrazzo tile flooring, cast in situ Terrazzo flooring, timber flooring (Concept only)	1	
	12/1/2021	Wednesday	5.2 Roofs: Glossary of terms, Types of roofs, concept and function of flat, pitched, hipped and Sloped roofs	1	
	12/2/2021	Thursday	5.3 Stairs: Glossary of terms; Stair case, winder, landing, stringer, newel, baluster, rise, tread, width of stair case, hand rail, nosing.	1	
	12/3/2021	Friday	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	
	12/8/2021	Wednesday	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		
	12/9/2021	Thursday	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	
	12/10/2021	Friday	6.2 Proportion of mortars used for different plasters, preparation of mortars, techniques of plastering and curing & Pointing – purpose –Types of pointing	1	
	12/15/2021	Wednesday	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	
	12/16/2021	Thursday	6.5 White washing – Colour washing – Distempering – internal and external walls.	1	
	12/17/2021	Friday	6.6 Termite proofing – Methods.	1	
			GREEN BUILDINGS, ENERGY MANAGEMENT AND ENERGY AUDIT OF BUILDINGS & PROJECT-4P		
	12/22/2021	Wednesday	8.1 Concept of green building & Introduction to Energy Management and Energy Audit of Buildings.	1	
	12/23/2021	Thursday	8.3 Aims of energy management of buildings.	1	
	12/24/2021	Friday	8.4 Types of energy audit, Response energy audit questionnaire	1	
	12/29/2021	Wednesday	8.5 Energy surveying and audit report.	1	