

**LESSON PLAN-WINTER-2022**  
**SWAMI VIVEKANANDA SCHOOL OF ENGG & TECH, BBSR**

Discipline- CIVIL DEPARTMENT	Semester-3RD	Name of teaching faculty- PRATIVA MANJARI BARIK		
Subject- BMCT	No class allotted/ per week -5	SEM From date- 15/09/2022 to 22/12/2022 No of weeks- 17		
Week	Class day	Theory Topics		
3RD	9/15/2022	Stone Classification of rock, uses of stone, natural bed of stone,		
	9/16/2022	Stone Classification of rock, uses of stone, natural bed of stone,		
	9/17/2022	Stone Classification of rock, uses of stone, natural bed of stone,		
4TH	9/19/2022	Qualities of good building stone, Dressing of stone		
	9/20/2022	Characteristics of different types of stone and their uses		
	9/21/2022	Bricks		
	9/22/2022	2.1 Brick earth – its composition		
	9/23/2022	2.2 Brick making – Preparation of brick earth, Moulding, Drying, Burning in kilns (continuous Process)		
	9/24/2022	2.3 Classification of bricks, size of traditional and modular bricks, qualities of good building bricks		
5TH	9/26/2022	2.3 Classification of bricks, size of traditional and modular bricks, qualities of good building bricks		
	9/27/2022	Cement, Mortar and Concrete		
	9/28/2022	3.1 Cement: Types of cements, Properties of cements, Manufacturing of cement		
	9/29/2022	3.2 Importance and application of blended cement with fly ash and blast furnace slag.		
	9/30/2022	3.3 Mortar: Definition and types of mortar		
1ST	10/1/2022	3.4 Sources and classification of sand, Bulking of sand		
3RD	10/10/2022	3.5 Use of gravel, morrum and fly ash as different building material		
	10/11/2022	3.6 Concrete: Definition and composition- Water cement ratio- Workability, mechanical properties and grading of aggregates, mixing, placing, compacting and curing of concrete		
	10/12/2022	3.6 Concrete: Definition and composition- Water cement ratio- Workability, mechanical properties and grading of aggregates, mixing, placing, compacting and curing of concrete		

	10/13/2022	3.6 Concrete: Definition and composition- Water cement ratio- Workability, mechanical properties and grading of aggregates, mixing, placing, compacting and curing of concrete		
	10/14/2022	4.1 Timber: Classification and Structure of timber.		
	10/15/2022	4.2 Seasoning of timber – Importance.		
4TH	10/17/2022	4.3 Characteristics of good timber.		
	10/18/2022	4.3 Clay products and refractory materials – Definition and Classification.		
	10/19/2022	4.4 Properties and uses of refractory materials- tiles, terracotta, porcelain glazing.		
	10/20/2022	4.5 Iron and Steel: Uses of cast iron, wrought iron, mild steel and tor steel		
	10/21/2022	Surface Protective Materials		
	10/22/2022	5.1 Composition of Paints, enamels, varnishes.		
5TH	10/24/2022	5.2 Types and uses of surface protective materials like Paints, Enamels, Varnishes, Distempers, Emulsion, French polish and Wax Polish.		
	10/25/2022	1.1 Buildings and classification of buildings based on occupancy 1.1 Different components of a building.		
	10/26/2022	Site investigation – objectives, site reconnaissance and explorations		
	10/27/2022	Foundations		
	10/28/2022	2.1 Concept of foundation and its purpose		
	10/29/2022	2.1 Types of foundations – shallow and deep		
6H	10/31/2022	2.2 Shallow foundation-constructural details of : Spread foundations for walls, thumb rules for depth and width of foundation and thickness of concrete block		
1ST	11/1/2022	Deep foundations: Pile foundations-their suitability, classification of piles based on materials, function and method of installation.		
	11/2/2022	3.1 Purpose of walls		
	11/3/2022	3.2 Classification of walls – load bearing, non-load bearing walls, retaining walls.		
	11/4/2022	reinforced concrete, precast, hollow and solid concrete block and composite masonry walls (Concept Only).		

2ND	11/5/2022	3.4 Partition Walls : Suitability and uses of brick and wooden partition walls		
	11/7/2022	3.5 Brick masonry : Definition of different terms		
	11/8/2022	3.6 Bond – meaning and necessity: English bond for 1 and 1-1/2 Brick thick walls. T, X and right angled corner junctions. Thickness for 1 and 1-1/2 brick square pillars in English bond		
	11/9/2022	3.4 Stone Masonry :3.8 Glossary of terms –String cours corbel, cornice, block-in-course, grouting, mouldings, templates, throating, through stones, parapet, coping, pilaster and buttress		
	11/10/2022	Doors, Windows And Lintels 4.1 Glossary of terms used in doors and windows		
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	11/12/2022	4.2 Doors – different types of doors		
3RD	11/14/2022	INTERNAL ASSESSMENT		
	11/15/2022	INTERNAL ASSESSMENT		
	11/16/2022	INTERNAL ASSESSMENT		
	11/17/2022	4.2 Doors – different types of doors		
	11/18/2022	4.3 Windows – different types of windows 4.4 Purpose of use of arches and lintels		
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4TH	11/21/2022	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		
	11/22/2022	5.2 Roofs: Glossary of terms, Types of roofs, concept and function of flat, pitched, hipped and Sloped roofs		
	11/23/2022	5.3 Stairs: Glossary of terms; Stair case, winder, landing, stringer, newel, baluster, rise, tread, width of stair case, hand rail, nosing, head room, mumty room.		
	11/24/2022	5.2 Roofs: Glossary of terms, Types of roofs, concept and function of flat, pitched, hipped and Sloped roofs		
	11/25/2022	5.4 Various types of stair case – straight flight, dog legged, open well, quarter turn, half turn (newel and geometrical stairs), bifurcated stairs, spiral stairs, cantilever stairs, tread		
	11/26/2022	Protective, Decorative Finishes, Damp and Termite Proofing		
	11/28/2022	Protective, Decorative Finishes, Damp and Termite Proofing		

5TH	11/29/2022	6.1 Plastering – purpose – Types of plastering, Types of plaster finishes – Grit finish, rough cast, smooth cast, sand faced, rubble dash, acoustic plastering and plain plaster etc.		
	11/30/2022	6.2 Proportion of mortars used for different plasters, preparation of mortars, techniques		
1ST	12/1/2022	6.2 Proportion of mortars used for different plasters, preparation of mortars, techniques		
	12/2/2022	6.3 Pointing – purpose –Types of pointing		
	12/3/2022	Painting – objectives – method of painting new and old wall surfaces, wood surface and metal surfaces – powder coating and spray painting on metal surfaces.		
2ND	12/5/2022	6.3 White washing – Colour washing – Distempering – internal and external walls.		
	12/6/2022	6.3 White washing – Colour washing – Distempering – internal and external walls.		
	12/7/2022	Damp and Termite proofing – Materials and Methods.		
	12/8/2022	Damp and Termite proofing – Materials and Methods.		
	12/9/2022	Green Buildings, Energy Management and Energy Audit Of Buildings & Project		
	12/10/2022	8.1 Concept of green building		
3RD	12/12/2022	8.2 Introduction to Energy Management and Energy Audit of Buildings.		
	12/13/2022	8.3 Aims of energy management of buildings.		
	12/14/2022	8.4 Types of energy audit, Response energy audit questionnaire		
	12/15/2022	Energy surveying and audit report.		
	12/16/2022	Energy surveying and audit report.		
	12/17/2022	Revision		
4TH	12/19/2022	Revision		
	12/20/2022	Revision		
	12/21/2022	Revision		
	12/22/2022	Revision		

H.O.D  
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