

PATHANI SAMANT INSTITUTE OF TECHNOLOGY LESSON PLAN FOR BUILDING MATERIALS AND CONSTRUCTION TECHNOLOGY FOR 3RD SEM ,CIVIL ENGG,WINTER2022

W.E.F.15.09.2022

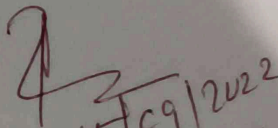
Faculty Name- *Dnyanesh Bhow* (Civil Engg.)

WEEK NO.	DATE	TOPIC	PERIODS ASSIGNED	SYPERIODS AVAILAB LE PER WEEK
W-1	15.09.22 TO 17.09.22	<b>STONE</b> 1.1 Classification of Rock, Uses of stone ,Natural Bed of stone 1.2 Qualities of good building stone, 1.3 Dressing of Stone 1.4 Characteristics of Different types of stones and their uses	5	1
				2+2EC
W-2	22.9.22 TO 28.9.22	<b>BRICKS</b> 2.1 Brick earth- its composition 2.2 Brick making—Preparation of Brick earth, Moulding, Drying, Burning in kilns (continuous process) 2.3 Classification of Bricks Size of traditional or modular Bricks. Qualities of good building bricks	6	3
				3
W---4	10.10.22 TO 12.10.22	<b>3.Cement,mortar concrete</b> 3.1:Types of Cement, Properties of Cement ,Manufacturing of Cement. 3.2Importance and application of blended cement with fly ash and blast furnishing slag 3.3Mortar: Types and Definition of mortar 3.4 Sources and classification of Sand ,Bulking of sand 3.5 Use of Gravel , morrum and fly ash as differwent building material 3.6 Concrete: Definition and composition of – water cement Ratio ,workability	7	3
				3+1EC
W---5	17.10.22 TO 19.10.22	<b>4.Others construction Materials</b> 4.1 Timber: Classification and structure of Timber Seasoning of Timber Characteristics of good timber, clay product and refractory materials, properties and uses of refractory materials-tiles, terracotta porcelain glazing. Iron and Steel: Uses of cast iron rot	7	2
				5

W-7	1.11.22 TO 5.11.22	<b>Surface protective Material</b> 5.1 Composition of paints ,enamels, varnishes, 5.2Types and uses of surface protective materials like paints Enamels, Distempers, Emulsion ,French polish and waxpolish	5	5
W-8	9.11.22 TO 10.11.22	<b>Part B (construction Technology)</b> <b>Introduction</b> 1.1 Building and classification of building based on occupancy 1.2 Different components of building 1.3 Site investigation-Objectives ,site reconnaissance and exploration	2	2
		<b>Foundations</b> 2.1 Concept of foundation and its purpose 2.2Types of Foundation-Shallow foundation & deep 2.3 Shallow Foundation- Constuctional details of spread foundations for wall thumb Rules for depth and width of foundation and thickness of concrete block 2.4Deep foundation: pile foundation -their suitability, classification of piles based on materials , function and method of installation	4	1
W-9	11.11.22 TO 15.11.22	3.1 purpose of walls 3.2Classification of walls as per materials of construction: brick, stone, reinforced concrete pre cast ,hollow, and solid concrete block and composite masonry walls 3.4 partition walls : suitability and uses of bricks and wooden partition walls 3.5Brick Masonry : Definition of different terms thick wall.T,X and right		3
		<b>3.Walls &amp; Masonary works</b> 3.1 purpose of walls 3.2Classification of walls as per materials of construction: brick, stone, reinforced concrete pre cast ,hollow, and solid concrete block and composite masonry walls 3.4 partition walls : suitability and uses of bricks and wooden partition walls 3.5Brick Masonry : Definition of different terms thick wall.T,X and right	6	2
W-10	17.11.22 TO 23.11.22	<b>4.Doors,Windows and Lintels</b> 4.1 Glossary of terms used in doors and windows 4.2 Doors-Different types of Doors 4.3Windows-Different types of Windows 4.4Purpose of use of arches and lintels	4	4
		<b>5.Floors,roofs and stairs</b> 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		
W-11	24.11.22 TO 28.11.22			
W-12	1.12.22 TO 6.12.22			

3	8.12.22 TO 13.12.22	<b>finishes, Damp and Termite proofing</b> <b>6.1</b> 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.	5	4
W-14	19.12.22 TO 22.12.22	<b>6.2</b> Proportion of mortars used for different plasters, preparation of mortars, technique of plastering and curing <b>6.3</b> pointing- purpose -Types of pointing <b>6.4</b> Painting-Objective s - methods of painting new and old wall surfaces <b>6.5</b> White washing-colour washing- Distempering	5	4
		<b>7.Green building, Energy management and Energy Audit of building &amp; project</b> <b>8.1</b> Concept of Green Building <b>8.2</b> Introduction to energy management and energy audit of buildings <b>8.3</b> Aims of Energy management of buildings <b>8.4</b> Typesw of energy audit ,Response energy audit questionnaire <b>8.5</b> Energy surveying and audit report		4
W-15	2.1.23 TO 21.1.23	<b>Discussion&amp; Revision</b>		

D.J. Rikhey  
Faculty Signature  
25/09/22

  
Principal Signature  
15/09/2022