

LESSON PLAN

NAME OF THE FACULTY : Ar. TWINKLE AGGARWAL
DEPARTMENT : ARCHITECTURAL ASSISTANTSHIP
SEMESTER : 2nd
SUBJECT : **BUILDING MATERIALS AND CONTRUCTION TECHNOLOGY –I**
LESSON PLAN DURATION : 17 WEEKS
WORK LOAD PER WEEK : 07

Week	Lecture Day	Topics
Week-1	1	UNIT-1 Building Stones 1.1 Classification of rocks
	2	1.2 Characteristics and utility of good building stones
	3	1.3 Testing -- Water absorption, Compressive strength and Durability test
Week-2	4	1.4 Natural bed of stones, its effective and correct placement in building
	5	1.5 Common building stones- 1.5.1 Granite, Basalt and Trap, Sandstone, Lime stone, Slate, Marble
	6	1.5.2 Their composition, Properties, uses and their origin
Week-3	7	1.5.3 Their transportation and storage Techniques
	8	1.5.4 Selection of stones for different building works
	9	1.6 Characteristics and classification of stone masonry
Week-4	10	1.7 Advantages and Disadvantages of different types of stones and their suitability to different elements of building
	11	Test Of Unit-1
	12	UNIT-2 Bricks 2.1 Sizes, classification and Composition of bricks
Week-5	13	Conduct of 1st Sessional Test From 15/03/2024-21/03/2024
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Week-6	16	2.2 Properties and uses of first class and second class bricks, clay and burnt bricks
	17	2.3 Characteristics of a good brick including size and weight of a standard brick
	18	2.4. Test for burnt clay bricks -- Compressive strength, Water absorption & efflorescence
Week-7	19	2.5 Fire bricks, its properties, uses and availability.
	20	2.6 Stretcher and header courses in various wall thickness,
	21	2.7 T-junctions and Cross-junction in ½, 1 and 1 ½ thick brick wall
Week-8	22	2.8 Different types of bonds - English, Flemish and Rat Trap Bond in different wall width
	23	2.9 Advantages and Disadvantages of different Bonds
	24	2.10 Advantages and Disadvantages of different types of bricks and their suitability to different elements of building
Week-9	25	Test Of Unit-2
	26	UNIT-3 Foundation 3.1 Different types of foundations (normal and eccentric)
	27	3.2 Their advantage of one over other
Week-10	28	Conduct of 2nd Sessional Test From 22/04/2024-26/04/2024
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Week-11	31	3.3 Brief knowledge of different types of foundations in basements
	32	3.4 Foundations for columns and verandah steps
	33	Test Of Unit-3
Week-12	34	UNIT-4 Openings in Walls 4.1 Classification of arches and lintels as per finish, shape and material
	35	4.2 Brick jallies and reinforcement.
	36	4.3 Brick jallies in ½ and 1 thick brick wall in English and Flemish Bond

Week-13	37	Test Of Unit-4
	38	UNIT-5 Damp Proof Course 5.1 Explanation of DPC and reasons for its use
	39	5.2 Sources and effects of dampness
Week-14	40	5.3 Classification as per hardness of material. 5.4 BIS stipulations of damp proofing
	41	5.5 Treatment of Building component for effective damp proofing.
	42	Test Of Unit-5
Week-15	43	Conduct of 3rd Sessional Test From 27/05/2024-31/05/2024
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Week-16	46	Sheets Final Submission
	47	Sheets Final Submission
	48	Mock Test of Complete Syllabus
Week-17	49	Problem Solving Classes
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