

Architectural Assistantship Department
Session 2024-25 (2nd Semester)

Subject: BM&C-I

Load: Theory -03, Practical- 04

Week	Theory		Topic
	Lecture Day	Topic (including assignment / test)	
Unit-I Building Stones			
1st	1st	Classification of rocks,	
		Characteristics of good building stones,Utility of stones,	
	2nd	Testing and natural bed of stone	
		Common building stones,composition, properties,use and their origin	
		3rd	Characteristics and classification of stone masonry
	Transportation,Storage systems/stacking system		
2nd	4th	Selection of stones for diferent building works	
		Advantages and Disadvantages of different types of stones and their suitability to different elements of building	
	5th	Sizes, classification and Composition of bricks	
	6th	Properties and uses of first class and second class bricks, clay and burnt bricks ,Characteristics of a good brick including size and weight of a standard brick	
3rd	7th	Bricks	
		Test for burnt clay bricks -- Compressive strength, Water absorption & efflorescence, Fire bricks, its properties, uses and availability.	
	8th	Types of Bricks	
		Stretcher and header courses in various wall thickness,	
	9th	T-junctions and Cross-junction in ½, 1 and 1 ½ thick brick wall	
		Bricks	
		Bricks Color	
	4th	10th	T-junctions and Cross-junction in ½, 1 and 1 ½ thick brick wall
11th		,Advantages and Disadvantages of different types of bricks and their suitability to different elements of building	
12th		Different types of bonds - English, Flemish and Rat Trap Bond in different wall width	
		Advantages and Disadvantages of different Bonds	
5th			Sessional Week-1
6th	13th	Different types of foundations (normal and eccentric)	
		Brief knowledge of different types of foundations in basements	
	14th	Their advantage of one over other.	
		Foundations for columns and verandah steps	
		Different types of foundations (normal and eccentric)	
	15th	Brief knowledge of different types of foundations in basements	
		Their advantage of one over other.	
		Foundations for columns and verandah steps	
	16th	Foundations for columns and verandah steps	
		Classification of arches and lintels as per finish, shape and material	

7th	17th	Classification of arches and lintels as per finish, shape and material	
		Classification of arches and lintels as per finish, shape and material	
	18th	Classification of arches and lintels as per finish, shape and material	
8th	19th	Brick jallies and reinforcement.	
		Brick jallies and reinforcement.	
	20th	Brick jallies and reinforcement.	
		Brick jallies and reinforcement.	
	21st	Brick jallies and reinforcement.	
		Classification of lintels as per finish, shape and material	
9th		Sessional Week-2	
10th	22nd	Brick jallies in ½ and 1 thick brick wall in English and Flemish Bond	
		Brick jallies in ½ and 1 thick brick wall in English and Flemish Bond	
	23rd	Brick jallies in ½ and 1 thick brick wall in English and Flemish Bond	
		Brick jallies in ½ and 1 thick brick wall in English and Flemish Bond	
	24th	Explanation of DPC and reasons for its use	
		Explanation of DPC and reasons for its use	
11th	25th	Classification of dpc material as per hardness of material	
		Classification of dpc material as per hardness of material	
	26th	Classification of dpc material as per hardness of material	
		Sources and effects of dampness	
		Sources and effects of dampness	
	27th	Sources and effects of dampness	
		Sources and effects of dampness	
		BIS stipulations of damp proofing	
12th	28th	Treatment of Building component for effective damp proofing.	
	29th	Treatment of Building component for effective damp proofing.	
	30th	Treatment of Building component for effective damp proofing.	
13th		Sessional Week-3	
14th	31st	Revision full syllabus	
	32nd	Revision full syllabus	
	33rd	Revision full syllabus	
15th	34th	Revision full syllabus	
	35th	Revision full syllabus	
	36th	Revision full syllabus	

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