

Department of Architecture
Govt. Polytechnic(W) Rehan
Distt. Kangra (HP)-176022



LESSON PLAN

Program Name	Architecture Assistantship
Subject Name	Building Material & Construction-IV
Subject Code	ARBS&AE-5002
Semester	5th
Subject Teacher Name	Vipin Kumar

Evaluation Scheme

S r · N o	Subject Name	Study scheme (Hrs./Week)			Marks in Evaluation Scheme						
		Th	Pr	Dcs	Internal Assessment			External Assessment			
					Th	Pr	Total	Th	Pr	Total	
1	Building Material&Construction-IV	1	4	2	40	40	80	60	60	120	
Reference Books		1	"Construction Technology" Vol. 1, Roy Chudley, Roger Greeno, Prentice Hall (UK), 2005.								
		2	"The Construction of Buildings", Vol. 2, R Barry, Wiley, 2001.								
		3	"Handbook of Architectural details for Commercial buildings", Joseph De Chiara, McGraw-Hill, 1979								
		4	"Building Design and Construction Handbook", Merrit, Ricketts, McGraw-Hill Prof Med/Tech, 2000.								

Course Outcomes (COs)

CO - 1	Students will understand the construction system and importance of interior building components in different materials.
CO - 2	. Students will appreciate various design intent and materials used for false ceilings, paneling etc.
CO - 3	Students will understand the basics and usage of prefabrication in building construction.

Teaching Plan

UNIT-I	Name of Topic	Proposed Date	Actual Date	Remarks
False Ceiling	Introduction to various materials, products and hardware for false ceiling. Detailed drawings and construction details of the false ceiling (Drawing Sheet 1)	13/8/24(Th)		
		13/8/24		
		16/8/24		
		20/8/24 (Th)		
		20/8/24		
		22/8/24		
		23/8/24		

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Curtain Wall Partition Wall	Intro to Curtain walls & Partition Wall	27/8/24(Th)		
	Detailed drawings and construction details of the Curtain walls & Partition Wall (Drawing Sheet 2 & 3)	27/8/24		
		29/8/24		
		30/8/24		
		03/9/24 (Th)		
		03/9/24		
	05/9/24			
Boundary Wall with gate	Introduction to Details of boundary wall and gate. Preparation of detailed drawing of same (Drawing Sheet 4)	06/9/24		
		10/9/24 (Th)		Class test 1 Schedule
		10/9/24		
		12/9/24		
		13/9/24		
		17/9/24 (Th)		
17/9/24				
UNIT-II Cladding & Wall Covering	Introduction to Cladding materials of Interior and Exterior walls in various materials such as Brick tiles, Stones, Vitreous tiles, Paneling etc. Cladding materials of Interior and Exterior walls as Brick tiles, Stones, Vitreous tiles, Paneling etc. Detailed drawings of their fixing details. (Drawing Sheet 5)	19/9/24		
		20/9/24		
		24/9/24(Th)		
		24/9/24		
		26/9/24		
		27/9/24		
		01/10/24(Th)		
01/10/24				
Market Survey	Market survey of the wall tiles and stones/various wall covering is to be conducted.	03/10/24		
Expansion Joint	Basic introduction to Expansion joints and construction joints (Drawing Sheet 6)	04/10/24		
		08/10/24(Th)		
		08/10/24		
UNIT -III Aluminium Doors&Windows	Introduction to Aluminium/PVC doors and windows, types and their uses.	10/10/24		
	Detail drawings of Aluminum doors and windows, (Drawing Sheet 7&8)	11/10/24		
		15/10/24(Th)		2 nd Class Test
		15/10/24		
		18/10/24		
		22/10/24(Th)		
22/10/24				
24/10/24				
25/10/24				
PVC	Introduction to PVC and UPVC for doors, windows, ceiling etc	01/11/24		
		05/11/24(Th)		PTM Schedule
		05/11/24		
UNIT -IV Timbering,Shoring, Underpinning ad scaffolding	Timbering of trenches, shoring, underpinning, scaffolding, strutting and waling. Detailed drawing of the above process (Drawing Sheet 9)	07/11/24		
		08/11/24		House Test Schedule
		12/11/24		
		12/11/24		
		14/11/24		
		19/11/24		
19/11/24				
Form Work	Form-work for RCC columns, beams, slabs, walls and stairs. (Drawing Sheet 10)	21/11/24		
		22/11/24		
		26/11/24		
		26/11/24		
Prefabrication	Prefabrication and its Applications in various building typologies	28/11/24		
		29/11/24		

Sheets


Sheets No	Contents of Syllabus Covered	Proposed Date	Actual Date	Remarks	
Sheet-1	UNIT-1	23/08/24			
Sheet-2					
Sheet-3			05/09/24		
Sheet-4			17/09/24		
Sheet-5	UNIT-2	01/10/24			
Sheet-6		08/10/24			
Sheet -7	UNIT-3	22/10/24			
Sheet-8		05/11/24			
Sheet-9	UNIT-4	19/11/24			
Sheet-10		26/11/24			

House Test/Class Test

Name of test	Syllabus for Tests	Proposed Date	Actual Date	Remarks
Class Test -1	Unit-1,	As per HPTSB Academic Schedule		
Class Test -2	Unit-2 & Unit 3			
House Test	Unit-1 to Unit-4			


(Signature of Teacher)


(Signature of HOD)


Principal
Govt. Polytechnic(W) Rehan
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