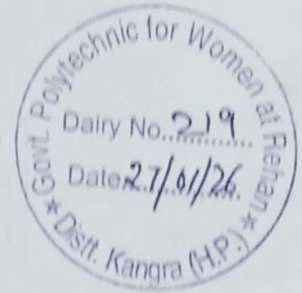


**Department of Architecture Assistantship
Govt. Polytechnic for Women Rehan
Distt.-Kangra (H.P.)-176022**



LESSON PLAN

Program Name	Architecture Assistantship
Subject Name	Building Materials & Construction-I
Subject Code	ARPC-2002
Semester	Second
Subject Co-ordinator Name	Miss Monika

Evaluation Scheme

Subject Name	Study Scheme (Hrs/Week)			Marks in Evaluation Scheme						Grand Total
				Internal Assessment			External Assessment			
	Th	Pr	Des	Th/Dwg	Pr	Total	Th	Pr	Total	
Building Materials & Construction-I	1	4	2	40	40	80	60	60	120	200

Text / Reference Books	<p>(i) Mc Kay, W.B. (1972) Building Construction (Metric), Longman, London, vol. 1 to 5.</p> <p>(ii) Building Construction, Sushil Kumar</p> <p>(iii) Building Construction, Sanjeev Mahajan</p> <p>(iv) "Construction Technology" Vol. 2-3-4 Roy Chudley, Roger Greeno, Prentice Hall (UK), 2005</p>
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Course Outcomes (COs)

CO:1	After completion of the course the student will be able to write technical literature of various building materials used in construction industries for marketing purposes. (e.g. brick, stone, cement, sand, concrete, paints and varnishes).
CO:2	The students will be able to apply various construction technologies on stone and brick masonry work.
CO:3	After completion of the course the student will be able to explain the properties, uses and application of various building materials like brick, stone, cement, sand, concrete, paints and varnishes.

Teaching Plan (Theory)

Unit No.	Name of Topic	Proposed Date	Actual Date	Remarks
Unit 1	Explain the role of construction in architecture.	06-02-2026		
	Explain the basic components of a building from foundation to roof.	13-02-2026 20-02-2026		
Unit 2	Explain the applications properties and defects in brick and stone.	27-02-2026		
	Explain the applications properties and defects in cement and sand.	06-03-2026		
	Explain the applications properties and defects in concrete.	13-03-2026		

Teaching Plan (Theory)

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Unit 1	Explain the role of construction in architecture.	06-02-2026		
	Explain the basic components of a building from foundation to roof.	13-02-2026 20-02-2026		
Unit 2	Explain the applications properties and defects in brick and stone.	27-02-2026		
	Explain the applications properties and defects in cement and sand.	06-03-2026		
	Explain the applications properties and defects in concrete.	13-03-2026		

	Explain the effect of Sun rain wind and other climatic and environmental conditions on building material and built environment.	20-03-2026		
Unit 2	Introduction to paint and its various types used in properties.	27-03-2026		
	Introduction to varnish and its various types used in properties.	10-04-2026		
	Market study report of various building materials, their types, applications and popular brand name.	17-04-2026		
Unit 3	Introduction to parts of bricks and its various types.	24-04-2026		
Unit 3	Define technical terms in concern to brick/stone masonry and Arches .	08-05-2026 22-05-2026		

Teaching Plan (Practicals)

Unit No.	Sheet No.	Name of Topic	Proposed Date	Actual Date	Remarks
Unit 3	Sheet 1	Stretcher Bond (1/2 Bricks) with L- Junction & T- Junction and English Bond (1 Brick) with L- Junction & T- Junction & Cross Junction.	05-02-2026 06-02-2026 07-02-2026		
	Sheet 2	English Bond (1 1/2Brick) with L- Junction & T- Junction & Cross Junction.	12-02-2026 13-02-2026 19-02-2026		
	Sheet 3	Single Flemish Bond (1 Brick) with L- Junction & T- Junction & Cross Junction.	20-02-2026 21-02-2026 26-02-2026		
	Sheet 4	Single Flemish Bond (1 1/2Brick) with L- Junction & T- Junction & Cross Junction.	27-02-2026 28-02-2026 05-03-2026		

Unit 3	Sheet 5	Double Flemish Bond (2 Bricks) with L- Junction and T-Junction and Cross Junction.	06-03-2026 07-03-2026 12-03-2026		
	Sheet 6	Components of Arches.	13-03-2026 19-03-2026 27-03-2026		
	Sheet 7	Various types of brick masonry arches.	28-03-2026 04-04-2026 09-04-2026		
Unit 4	Sheet 8	Various types of stone masonry arches (1)	10-04-2026 18-04-2026 24-04-2026 25-04-2026		
	Sheet 9	Various types of stone masonry arches (2)	30-04-2026 02-05-2026 07-05-2026 08-05-2026		

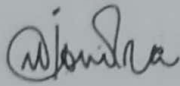
Unit 4	Sheet 10	Various types of stone masonry walling.	21-05-2026		
			22-05-2026		
			23-05-2026		
			28-05-2026		

Assignments

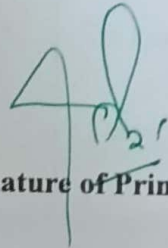
Assignment No.	Contents of Syllabus Covered	Proposed Date	Actual Date	Remarks
A - 1	Define the basic components of a building from foundation to roof.	20-02-2026		
A - 2	Market study report of various building materials, their types, applications and popular brand name.	17-04-2026		
A - 3	Define technical terms in concern to brick/stone masonry	22-05-2026		

House Test / Class Test

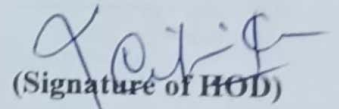
Name of Test	Syllabus for Tests	Proposed Date	Actual Date	Remarks
Class Test - 1	UNIT -1 & 2	20-03-2026		
Class Test - 2	UNIT - 3	16-04-2026		
House Test -1	UNIT 1 to 4	As per scheduled date		



(Signature of Teacher)



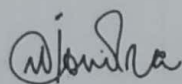
(Signature of Principal)



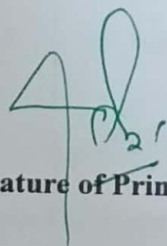
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House Test / Class Test

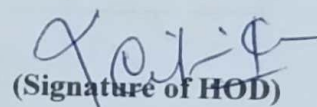
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Class Test - 1	UNIT -1 & 2	20-03-2026		
Class Test - 2	UNIT - 3	16-04-2026		
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(Signature of Teacher)



(Signature of Principal)



(Signature of HOD)