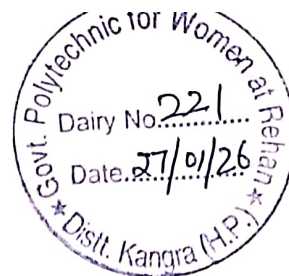


Department of Architecture Assistantship
Govt. Polytechnic for Women Rehan
Distt.-Kangra (H.P.)-176022



Program Name	Architecture Assistantship
Subject Name	Professional Elective-IV(Green Architecture)
Subject Code	ARPE-6004
Semester	Sixth
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	Th	Pr	Total	Th	Pr	Total	
PROFESSION ELECTIVE-IV (GREEN ARCHITECTURE)	3	-	40	-	40	60	-	60	100
Text/Reference Books	(i) Energy Efficient Buildings-TERI India Publications. (ii) Sustainable Building Design Manual Vol 1 & 2, TERI, New Delhi. (iii) Kibert, C.J., Sustainable construction: Green Building design and Delivery, John Wiley Hobo-u ken, New Jersey (iv) Green Structures by Satyajet Ghosh.								

Course Outcomes (COs)

CO : 01	Students will be able to write about benefits, components and planning of Green Buildings.
CO : 02	To apply energy efficiency techniques and site selection strategies in green buildings.
CO : 03	To assess a Green Building with use of various energy simulation tools and application of ECBC building codes.
CO : 04	To explain role of various national/international agencies in Green Architecture and to write a study report on various Green Architecture projects in India.

Teaching Plan (Theory)

Unit No.	Name of Topic	Proposed Date	Actual Date	Remarks
Unit 1	Definitions and benefits of green architecture.	30-01-2026		
	Principle of green building	02-02-2026		

Unit 1	Planning of green building	03-02-2026 06-02-2026 09-02-2026		
Unit 2	Active and passive energy efficiency techniques and their importance.	10-02-2026 13-02-2026 16-02-2026 17-02-2026		
	Illustrations on role of Orientation, Landscaping, Building Form, Building envelopment fenestrations, material and construction technique in roof and walls, shading and vegetation.	20-02-2026 23-02-2026 24-02-2026		
	Explanation on concept of solar gain for winter and optimization of daylight.	27-02-2026 02-03-2026 03-03-2026 06-03-2026		
	Description on renewable energy and waste reduction techniques.	09-03-2026 10-03-2026 13-03-2026		
	Identification of energy efficient appliances.	16-03-2026 17-03-2026		
	Description of site selection strategies.	23-03-2026 24-03-2026 27-03-2026		
Unit 3	Identification of water efficient appliances.	30-03-2026 31-03-2026		
	Illustration on rainwater harvesting. water and waste water treatment.	01-04-2026 06-04-2026		
	Explain procedure of reduction in waste.	08-04-2026 10-04-2026		
	Illustration on recycled material and their LCA .	13-04-2025 17-04-2026		
	Explain features of eco-friendly materials and solid waste management.	20-04-2026 24-04-2026		
	Explain natural ventilation system and mechanical ventilation system.	27-04-2026 29-04-2026 04-05-2026		
	Low VOC volatile organic compound paints.	06-05-2026		
Unit 4	Summary on building performance assessment and energy simulation tools.	08-05-2026 11-05-2026		
	Explain energy conservation building codes ECBC of India.	13-05-2026		

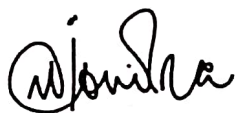
Unit 4	Description on various national and international rating agencies like IGBC, GRIHA, LEED.	18-05-2026 20-05-2026		
	Representation on green architecture projects in India. (Minimum two).	22-05-2026 25-05-2026		

Assignments

Assignment No.	Contents of Syllabus Covered	Proposed Date	Actual Date	Remarks
A-1	Explain role of Orientation, Landscaping, Building Form, Building envelopment fenestrations, material and construction technique in roof and walls, shading and vegetation.	27-02-2026		
A-2	a) Explain concept of rainwater harvesting. water and waste water treatment. b) Tabulate the recycled material and their LCA.	20-04-2026		
A-3	Case studies on green architecture projects in India. (Minimum two).	25-05-2026		

House Test/Class Test

Name of Test	Syllabus for Tests	Proposed Date	Actual Date	Remarks
CT-1	Unit – 1 to 2	20-03-2026		
CT-2	Unit – 3	22-04-2026		
HT	Unit – 1 to 4	As per Scheduled Date		



(Signature of Teacher)



(Signature of Principal)



(Signature of HOD)