

DEPARTMENT OF ARCHITECTURAL ASSISTANTSHIP
GOVT. POLYTECHNIC FOR WOMEN, REHAN DISTT KANGRA H.P.



LESSON PLAN

Programme Name	Architecture Assistantship
Subject Name	Climate Responsive Architecture
Subject Code	ARPC - 3005
Semester	Third
Subject Teacher name	Ar. Rajeev Bhardwaj

Evaluation Scheme

S. No.	Subject Name	Study Scheme (Hrs/Week)	Marks In Evaluation Scheme							
			Internal Assessment			External Assessment				
			Th.	Pr.	Total	Th.	Pr.	Total		
1	Climate Responsive Arch.	3 (Th)	40		40		60			60
Reference Books		Manual of Tropical Housing and Building: Climate Design by O.H. Koenigsberger et.al, Madras: Orient Longman, 1984 Environmental Design by Randall Thomas, Taylor & Francis; 3rd edition, 2006.								

Course Outcome

CO-I	Understand Climatology & Human comfort and its role in Architecture
CO-II	Implement passive design strategies in the design projects which in itself is the need of the hour
CO-III	Appreciate the importance of climate responsive design in contemporary world and apply the same in their Architectural Design works

Teaching Plan

Unit No.	Name Of Topic	Month	Proposed Date	Actual Date	Remarks
Unit-I	Role of climate w.r.t shelter and importance of building climatology	August	1,2,6		
	Latitude, longitude, solar radiation etc.		8,9,13		
	Humidity, temperature etc.		15,16,20,22		
	Various climatic zones of India		27,29,30		
Unit -II	Effect of local factors and landscape elements on site climate	Sept.	3,5,6		
	Thermal balance of human body and comfort zone		10,12,13		
	Heat flow through building envelope, thermal balance equation		17,19,20		
	Thermo physical properties of building materials like conductivity etc.		24,26,27		
Unit -III	Apparent movement of the sun, Sun path diagrams and its Orientation, internal blinds and curtains, high performance	Oct.	1,3,4		
	Solar angles, shadow angles		8,10,11,		
	study of diurnal and seasonal variations, heating and cooling,		15,17,18		
	Supply of fresh air, stack effect, air movement in and around		22,24,25		
Unit -IV	Water-vapor. Relative-humidity, condensation, rain, fog, snow	Nov.	29,31		
	Day-light: glare, amount of light, sky as a source of light and		1		
	Climate responsive traditional architecture in different climatic		5,7,8		
	Example of climate responsive contemporary building projects		12,14,15		
	Question bank to be provided and discussed with the students		19,21,22		
Revision		Dec.	26,28,29		

Assignments/ Submissions:-

Assignment/ Submission No. 1	Contents Of Syllabus Covered	Proposed Date	Actual Date	Remarks
A-1	Unit-I & Unit -II	20-09-2024		
A-2	Unit-III	25-10-2024		
A-3	Unit-IV	22-11-2024		

House Test/ Class Test

Name Of Test	Syllabus Fot Test	Proposed Date	Actual Date	Remarks
Class Test -I	Unit-I	12-09-2024		
Class Test -II	Unit-II & Unit -III	24-10-2024		
House Test	Unit -I to Unit-IV	Nov 2nd Week		

Sign Of Teacher

Approved

Principal
 Govt Polytechnic for Women Rehan

Sign Of H.O.D.

DEPARTMENT OF ARCHITECTURAL ASSISTANTSHIP
GOVT. POLYTECHNIC FOR WOMEN , REHAN DISTT KANGRA H.P.

LESSON PLAN

Programme Name	Architecture Assistantship
Subject Name	Architecture Design -V
Subject Code	ARPC-5001
Semester	Fifth
Subject Teacher name	Ar. Rajeev Bhardwaj



Evaluation Scheme

S. No.	Subject Name	Study Scheme (Hrs/Week)	Marks In Evaluation Scheme					
			Internal Assesment			External Assesment		
			Th.	Pr.	Total	Th.	Pr.	Total
1	Arch. Design - V	1(Th),6 (Pr)	40	40	80	60	60	120
Reference Books		Time Saver Standard for Arch. Design Data , Donald Watson McGrahills 15 Time Saver Standard for Building Types , Joseph De Chiara McGrahills , New York						

Course Outcome

CO-I	To understand the functional /planning aspects of institutional buildings.
CO-II	To explore and learn the design intricacies of buildings of specific functions.
CO-III	To Familiarize with the concept of multistory structure

Teaching Plan

Unit No.	Name Of Topic	Month	Proposed Date	Actual Date	Remarks
Unit-I	Design of an institute campus such as Architecture, Medical, Law, Business, Music and Dance colleges, vocational training institutions etc. with detailed design of academic and library block. Emphasis on design with Barrier Free Environment can be explored during this exercise	August	12,14		
			15,16,19		
			21,22, 23,26		
			28,29,30		
		Sept.	2,4,5,6		
			9,11,12, 13		
			16,18,19, 20		
			23, 25,26, 27		
Unit-II	Design of Housing/Multistory building with emphasis on construction system and vertical circulation	Oct.	30		
			3, 4,7		
			9,10, 11		
			14,16,17, 18		
		Nov.	21,23,24,25		
			28,30,31		
			1,4,6,7		
			11,13,14,15,		
			18,20,21,22,		
			25,27,28		
Dec.	29				
	2				

Assignments/ Submissions:-

Assignment/ Submission No. 1	Contents Of Syllabus Covered	Proposed Date	Actual Date	Remarks
A-1	Unit-I	30-08-2024		
A-2	Unit-II	18-10-2024		

House Test/ Class Test

Name Of Test	Syllabus Fot Test	Proposed Date	Actual Date	Remarks
Class Test -I	Unit-I	12-09-2024		
Class Test -II	Unit-II	24-10-2024		
House Test	Unit-III	Nov 2nd Week		


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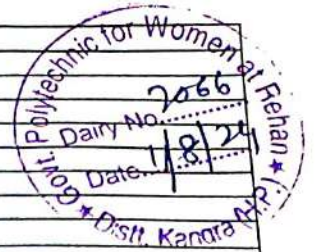

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**DEPARTMENT OF ARCHITECTURAL ASSISTANTSHIP
GOVT. POLYTECHNIC FOR WOMEN, REHAN DISTT KANGRA H.P.**

LESSON PLAN

Programme Name	Architecture Assistantship
Subject Name	Architecture Drawing & Graphics
Subject Code	ARPC-1002
Semester	First
Subject Teacher name	Ar. Rajeev Bhardwaj



Evaluation Scheme

S. No.	Subject Name	Study Scheme (Hrs/Week)	Marks In Evaluation Scheme					
			Internal Assessment			External Assessment		
			Th.	Pr.	Total	Th.	Pr.	Total
1	Arch. Drawing & Graphics	1(Th), 6 (Pr), 2(Dcs)		40	40		60	60
Reference Books		Engineering Drawing By P.S. Gill , Kataria Publication Engineering Drawing By N.D. Bhatt, Charotra Publication						

Course Outcome

CO-I	Understand basic concepts of Architecture & Engineering Drawing
CO-II	Develop the basic conceptual sketches in 2D as well as in 3D

Teaching Plan

Unit No.	Name Of Topic	Month	Proposed Date	Actual Date	Remarks
Unit-I	Introduction to Architectural Graphics -Drawing Instruments – Standard Sizes of Drawing sheets-Layout of drawing sheets-Title block- Types of lines and their applications-Introduction to Dimensioning-Elements of Dimensioning– Types of Dimensioning- 1. Unidirectional. 2. Aligned system of dimensioning as per B.I.S.	August	12,13		
			14,16		
			19,20,21,23		
			26,27,28,30		
Unit -II	Geometrical Construction- Construction of polygons without angular measurements.Inscription of circle in polygons. Inscription of equal circles in regular polygons touching each other and midpoints of sides of polygon. Circumscription of circle to regular polygons.Scale- Representative fraction, Types of Scales:- Plane Scale and Diagonal Scale	September	2,3,4,6,		
			9,10,11,13		
			16,17,18,20		
			23,24,25,27		
Unit-III	Conic Section - Terminology- Ellipse,Parabola-Hyperbola,Rectangular,Hyperbola-Construction Solid Geometry-Ortho Graphics Projections. Theory of Projection, Orthographic Projection, V.P. and H.P.Front and Top View , IST and Third Angle Projection Projection of Solids , section of Solids Sciography- Sciography of basic 3D shapes like cube , cuboid , sphere etc.	October	4		
			7,8,9,11		
			14,15,16,18		
			21,22,23,25		
Unit -IV	Terminology–Isometric Scale and Isometric Graph Box Method of Drawing Isometric Projections Co-ordinate/offset method of Drawing Isometric Projections. Four Centre method of Drawing Isometric Projections Simple problems of Isometric views of various forms such as cube, box etc. Difference between Isometric Projections & Perspective Views Terminology used in Perspective view Simple problems on Two Point and One point perspective of interior and exterior of single storey building with flat roof	November	28,29,30,		
			4,5,6,8		
			11,12,13,15		
			18,19,20,22		
		25,26,27			
December	29				
		December	2		

Assignments/ Submissions:-

Assignment/ Submission No. 1	Contents Of Syllabus Covered	Proposed Date	Actual Date	Remarks
A-1	Unit-I	30-08-2024		
A-2	Unit-II	11-10-2024		
A-3	Unit-III	26-11-2024		
A-4	Unit-IV	02-12-2024		

House Test/ Class Test

Name Of Test	Syllabus For Test	Proposed Date	Actual Date	Remarks
Class Test -I	Unit-I	11-09-2024		
Class Test -II	Unit-II	23-10-2024		
House Test	Unit-III	Nov 2nd Week		

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Principal
Govt Polytechnic for Women Rehan
1/8/24