

Department of Civil Engg.
Govt. Polytechnic for Women Rehan
Distt. – Kangra (H.P.) - 176022



LESSON PLAN

Program Name	Civil Engineering
Subject Name	Building Planning and Drawing Lab
Subject Code	CEPC218
Semester	4th
Subject Teacher Name	Namish Rana

Evaluation Scheme

Sr. No	Subject Name	Study scheme (Hrs/Week)		Marks in Evaluation Scheme					
				Internal Assessment			External Assessment		
		Th	Pr	Th	Pr	Total	Th	Pr	Total
1.	Building Planning and Drawing Lab	-	4	-	40	40	-	60	60
Reference Books		(1) Swamy, Kumara; Rao, N, Kameshwara, A., Building Planning and Drawing, Charotar Publication, Anand (2) Shah. M.G. Kale, CM, Patki, S.Y., Building Drawing, McGraw Hill Publishing							

Course Outcomes (COs)

CO – 1	Interpret the symbols, signs and conventions from the given drawing.
CO – 2	Prepare line plans of residential and public buildings using principles of planning
CO – 3	Prepare submission and working drawing for the given requirement of Load Bearing Structure.
CO – 4	Prepare submission and working drawing using CAD for the given requirement of Framed Structure
CO – 5	Draw two-point perspective drawing for given small objects.

Teaching Plan

Name of Topic	Proposed Date	Actual Date	Remarks
Introduction to Building Drawing	27/01/2026		
Draw various types of lines, graphical symbols for materials, doors and windows, symbols for sanitary, water supply and electrical installations and write abbreviations as per IS 962.	30/01/2026, 03/02/2026		
Draw line plan to suitable scale (1BHK, staircase, WC and Bathroom)	06/02/2026, 10/02/2026,		
Draw line plans to suitable scale for the following Public Buildings (School Building and Community Hall)	13/02/2026,		
Draw submission drawing to the scale 1:100 of a single storey load bearing residential building (2BHK) with flat Roof and staircase showing a. Developed plan and elevation b. Section passing through Stair or W.C. and Bath c. Foundation plan and schedule of openings. d. Site plan (1:200), area statement, construction notes.	17/02/2026, 20/02/2026 24/02/2026, 27/02/2026, 03/03/2026,		

Draw submission drawing, to the scale of 1:100, of (G+1) Framed Structure Residential Building (2BHK) with Flat Roof and staircase showing: a. Developed plan b. Elevation. c. Section passing through Staircase, WC and Bath d. Site plan (1:200) and area statement e. Schedule of openings and Construction Notes.	06/03/2026, 10/03/2026, 13/03/2026, 17/03/2026, 20/03/2026, 24/03/2026 27/03/2026 31/03/2026		
Draw working drawing for above mentioned drawing at serial number 5 showing: a. Foundation plan to the scale 1:50 b. Detailed enlarged section of RCC column and footing with plinth filling. c. Detailed enlarged section of RCC Beam, Lintel and Chajjas.	07/04/2026, 10/04/2026, 17/04/2026, 21/04/2026, 24/04/2026, 27/04/2026		
Draw the above-mentioned drawing at serial number 5 using CAD software and enclose the printout. a. Developed plan b. Elevation. 52 c. Section passing through Staircase, W.C. and Bath d. Foundation plan. e. Site plan (1:200), area statement, Schedule of openings and construction notes	05/05/2026, 08/05/2026, 12/05/2026, 15/05/2026, 19/05/2026, 22/05/2026		

Assignments

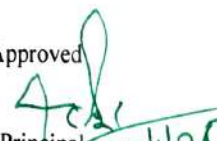
Assignment No	Contents of Syllabus Covered	Proposed Date	Actual Date	Remarks
	NA			
	NA			

House Test/Class Test

Name of test	Syllabus for Tests	Proposed Date	Actual Date	Remarks
Class Test -1	First 30 % of the syllabus	As per HPTSB Academic Schedule		
Class Test -2	Next 30 % of the syllabus			
House Test	80% of the syllabus			


(Signature of Teacher)


(Signature of HOD)

Approved

Principal 27/1/25
Govt. Polytechnic for Women
Rehan Distt. Kangra (H.P.)

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Distt. – Kangra (H.P.) - 176022



LESSON PLAN

Program Name	Civil Engineering
Subject Name	Building Planning and Drawing
Subject Code	CEPC206
Semester	4th
Subject Teacher Name	Namish Rana

Evaluation Scheme

Sr. No	Subject Name	Study scheme (Hrs/Week)		Marks in Evaluation Scheme					
				Internal Assessment			External Assessment		
		Th	Pr	Th	Pr	Total	Th	Pr	Total
1.	Building Planning and Drawing	1	-	40	-	40	60	-	60
Reference Books		(1) Shah. M.G. Kale, CM, Patki, S.Y., Building Drawing, McGraw Hill Publishing company Ltd. New Delhi. (2) M. G. Shah and C. M. Kale, Principles of Perspective Drawing, McGraw Hill Publishing company Ltd. New Delhi.							

Course Outcomes (COs)

CO – 1	Interpret the symbols, signs and conventions from the given drawing.
CO – 2	Prepare line plans of residential and public buildings using principles of planning
CO – 3	Prepare submission and working drawing for the given requirement of Load Bearing Structure.
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CO – 5	Draw two-point perspective drawing for given small objects.

Teaching Plan

	Name of Topic	Proposed Date	Actual Date	Remarks
	Introduction to Building planning	02/02/2026		
Unit – I Conventions and Symbols	Conventions as per IS 962, symbols for different materials such as earthwork, brickwork, stonework, concrete, woodwork, and glass. • Graphical symbols for doors and windows, Abbreviations, symbols for sanitary and electrical installations.	09/02/2026		
	Types of lines-visible lines, centre line, hidden line, section line, dimension line, extension line, pointers, arrowhead, or dots. Appropriate size of lettering and numerals for titles, sub-titles, notes, and dimensions. • Types of scale-Monumental, Intimate, criteria for Proper Selection of scale for various types of drawing.	16/02/2026		
	Sizes of various standard papers/sheets. • Reading and interpreting readymade Architectural building drawing (To be	23/02/2026		

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	procured from Architect, Planning Consultants, Planning Engineer).			
Unit- II Planning of Building	Principles of planning for Residential and Public building- Aspect, Prospect, Orientation, Grouping, Privacy, Elegance, Flexibility, Circulation, Furniture requirements, Sanitation, Economy	02/03/2026		
	Space requirement and norms for minimum dimension of different units in the residential and public buildings as per IS 962.	09/03/2026		
	Rules and byelaws of sanctioning authorities for construction work. • Plot area built up area, super built-up area, plinth area, carpet area, floor area and FAR (Floor Area Ratio).	16/03/2026		
	Line plans for residential building of minimum three rooms including water closet (WC), bath and staircase as per principles of planning. Line plans for public building-school building, primary health centre, restaurant, bank, post office, hostel, Function Hall and Library.	23/03/2026		
Unit- III Drawing of Load Bearing Structure	Drawing of Single storey Load Bearing residential building (2 BHK) with staircase. • Data drawing –plan, elevation, section, site plan, schedule of openings, construction notes with specifications, area statement, Planning and design of staircase- Rise and Tread for residential and public building.	30/03/2026		
	Working drawing – developed plan, elevation, section passing through staircase or WC and bath. • Foundation plan of Load bearing structure.	06/04/2026		
Unit- IV Drawing of Framed Structure	Drawing of Two storeyed Framed Structure (G+1), residential building (2 BHK) with stair- case.	13/04/2026		
	Data drawing – developed plan, elevation, section, site plan, schedule of openings, construction notes with specifications, area statement. Planning and design of staircase- Rise and Tread for residential and public building.	20/04/2026		
	Working drawing of Framed Structure – developed plan, elevation, section passing through staircase or WC and bath. • Foundation plan of Framed Structure.	27/04/2026		
	Details of RCC footing, Column, Beam, Chajjas, Lintel, Staircase, and slab.	04/05/2026		
	Drawing with CAD- Draw commands, modify commands, layer commands.	11/05/2026		

Assignments

Assignment No	Contents of Syllabus Covered	Proposed Date	Actual Date	Remarks
A-1	Unit-I and Unit -II	10/03/2026		
A-2	Unit-III and Unit-IV	05/05/2026		

House Test/Class Test

Name of test	Syllabus for Tests	Proposed Date	Actual Date	Remarks
Class Test -1	Unit-I and Unit -II	As per HPTSB Academic Schedule		
Class Test -2	Unit-III and Unit-IV			
House Test	80% of the syllabus			


(Signature of Teacher)


(Signature of HOD)

Approved

Principal
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Rehan Distt. Kangra (H.P.)