

**UGMIT, RAYAGADA**  
**DEPARTMENT OF CIVIL ENGINEERING**

Discipline: CIVIL ENGG	Semester:4TH	Name of the Teaching Faculty: CHINMAYA MAHARANA,GUEST FACULTY IN CIVIL DEPT.
Subject: BUILDING PLANNING & DRAWING LAB-1	No. of days/per week class allotted:4	Semester From date: 22.12.2025 To Date: 18.04.2026 No. of Weeks: 15
WEEKS	CLASS DAY	THEORY/PRACTICAL TOPICS
1st	1st	Draw various types of lines, graphical symbols for materials, doors and windows,
	2nd	
	3rd	symbols for sanitary, water supply and electrical installations and write abbreviations as per IS 962.
	4th	
2nd	1st	Write summary of observations of all technical details from the given drawing (One/Two BHK) obtained from the professional architect or civil engineer (Group activity in four students)
	2nd	
	3rd	Draw line plans to suitable scale for any Five Public Buildings from the following (School Building, Primary Health Centre, Bank, Post Office,
	4th	
3rd	1st	Principles of planning for Residential and Public building- Aspect, Prospect, Orientation, Grouping, Privacy, Elegance, Flexibility, Circulation, Furniture requirements, Sanitation, Economy.
	2nd	
	3rd	
	4th	
4th	1st	Space requirement and norms for minimum dimension of different units in the residential and public buildings as per IS 962.
	2nd	
	3rd	
	4th	
5th	1st	Rules and bye-laws of sanctioning authorities for construction work.
	2nd	
	3rd	
	4th	
6th	1st	Plot area, built up area, super built-up area, plinth area, carpet area, floor area and FAR (Floor Area Ratio).
	2nd	
	3rd	
	4th	
7th	1st	Line plans for residential building of minimum three rooms including water closet (WC), bath and staircase as per principles of planning.
	2nd	
	3rd	
	4th	
8th	1st	Drawing of Single storey Load Bearing residential building (2 BHK) with staircase.
	2nd	
	3rd	

9th	4th	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.
	1st	
	2nd	
	3rd	
10th	4th	Working drawing – developed plan, elevation, section passing through staircase or WC and bath.
	1st	
	2nd	Foundation plan of Load bearing structure.
	3rd	
11th	4th	Drawing of Two storeyed Framed Structure (G+1), residential building (2 BHK) with staircase
	1st	
	2nd	
	3rd	
12th	4th	Data drawing – developed plan, elevation, section, site plan, schedule of openings, construction notes with specifications, area Planning and design of staircase- Rise and Tread for residential and public building.
	1st	
	2nd	
	3rd	
13th	4th	Working drawing of Framed structure – developed plan, elevation, section passing through staircase or WC and bath.
	1st	
	2nd	
	3rd	
14th	4th	Foundation plan of Framed Structure.
	1st	
	2nd	Details of RCC footing, Column, Beam, Chajjas, Lintel, Staircase and slab.
	3rd	
15th	4th	Definition, Types of perspective, terms used in perspective drawing, principles used in perspective drawing
	1st	
	2nd	Two Point Perspective of small objects only such as steps, monuments, pedestals.
	3rd	

Chinmaya Maharama  
 Sign of Concerned Faculty  
 D-22/12/25

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 Sign Of HOD