

UGMIT, RAYAGADA, DEPARTMENT OF CIVIL ENGINEERING

WEEK	Class Days	TOPIC TO BE COVERED
Discipline: Civil Engg.	Semester: 6TH	Name of the Teaching Faculty: CHINMAYA MAHARANA, GF
Subject: CADD Lab and Design & Detailing Practice	No. of Days/Per week class allotted: 03	Semester From Date: 22.12.2025 To Date: 18.04.2026
		No. of Weeks: 15 Weeks
1ST	1st 2nd 3rd	Structural Detailing Practice: Slab, beam and lintel with chajja as in a simple building (Help from Sections 8 & 9 of SP 34 may be taken) (Plate 1)
2ND	1st 2nd 3rd	Columns, column-beam connections with & without splicing, isolated footing, staircase (Help from sections 6, 7, 10 of SP 34 may be taken) (Plate 2)
3RD	1st 2nd 3rd	Different types of bolt connections, welded connections
4TH	1st 2nd 3rd	Details of Pile and Pile cap
5TH	1st 2nd 3rd	Use of STADD Pro Software: 2-D Modelling of structures, Use of Structure wizard, Geometry, Property, Support, Loads and combinations, Analysis
6TH	1st 2nd 3rd	Analysis of a Continuous beam with more than two span subjected to udl and point load
7TH	1st 2nd 3rd	3-D modeling of building structures, dead load, live load, earthquake and wind load analysis, design of a 3 storeyed building and preparation of reinforcement drawing and detailing
8TH	1st 2nd 3rd	Introduction to STADD foundation.
9TH	1st 2nd 3rd	Revit Architecture Software: Basics- Modify, Wall, Door, Window, Component Room, Roof, Floor, Grid, Lines, Dimension, Section, Level, Text, View

10TH	1st	Modelling- Ramp, Railing, Stair
	2nd	
	3rd	
11TH	1st	Site- Topo surface- Parking Component, Site Component
	2nd	
	3rd	
12TH	1st	Align, Split, Trim, offset, Match type, Line work, Paint, Scale, Unit
	2nd	
	3rd	
13TH	1st	REVISION
	2nd	
	3rd	
14TH	1st	3D View
	2nd	
	3rd	
15TH	1st	Preparation of approval drawing of a double storied residential building from given specifications with its 3D view using above commands
	2nd	
	3rd	

Chinmanga Maharana
D-22/12/25

Signature of Faculty:


Signature of HOD