

**LESSON PLAN : PR-3. CADD LAB AND DESIGN & DETAILING PRACTICE, SESSION 2024 (SUMMER 2023) BATCH-2020-2023(6th Semester)**



Discipline: Civil Engineering	Semester: 6TH	Name of the Teaching Faculty: Rupali Kumari Patra (PTGF)
Subject: PR-3-CADD LAB DESIGN & DETAILING PRACTICE	No. of days/ per week class allotted: 3	Semester From Date : 14-02-2023 to Date: 31-05-2023,
		No. of Weeks: 15
Week	Class Day	Theory/ Practical Topics
1ST	1	1.0 Structural Detailing Practice: 1.1 Slab, beam and lintel with chajja as in a simple building (Help from Sections 8 & 9 of SP 34 may be taken ) (Plate I)
	2	1.1 Slab, beam and lintel with chajja as in a simple building (Help from Sections 8 & 9 of SP 34 may be taken ) (Plate I)
	3	1.1 Slab, beam and lintel with chajja as in a simple building (Help from Sections 8 & 9 of SP 34 may be taken ) (Plate I)
2ND	1	1.1 Slab, beam and lintel with chajja as in a simple building (Help from Sections 8 & 9 of SP 34 may be taken ) (Plate I)
	2	1.1 Slab, beam and lintel with chajja as in a simple building (Help from Sections 8 & 9 of SP 34 may be taken ) (Plate I)
	3	1.2 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	1	1.2 Columns, column-beam connections with & without splicing, isolated footing, staircase (Help from sections 6, 7, 10 of SP 34 may be taken)(Plate 2)
	2	1.2 Columns, column-beam connections with & without splicing, isolated footing, staircase (Help from sections 6, 7, 10 of SP 34 may be taken)(Plate 2)
	3	1.2 Columns, column-beam connections with & without splicing, isolated footing, staircase (Help from sections 6, 7, 10 of SP 34 may be taken)(Plate 2)
4TH	1	1.2 Columns, column-beam connections with & without splicing, isolated footing, staircase (Help from sections 6, 7, 10 of SP 34 may be taken)(Plate 2)
	2	1.3 Different types of bolt connections, welded connections. (Plate3)
	3	1.3 Different types of bolt connections, welded connections. (Plate3)
5TH	1	1.3 Different types of bolt connections, welded connections. (Plate3)
	2	1.3 Different types of bolt connections, welded connections. (Plate3)
	3	1.3 Different types of bolt connections, welded connections. (Plate3)
6TH	1	1.4 Details of Pile and Pile cap
	2	1.4 Details of Pile and Pile cap
	3	1.4 Details of Pile and Pile cap
7TH	1	1.4 Details of Pile and Pile cap
	2	1.4 Details of Pile and Pile cap
	3	2.0 Use of STADD Pro Software: 2.1 2-D Modelling of structures, Use of Structure wizard, Geometry, Property, Support, Loads and combinations, Analysis
8TH	1	2.1 2-D Modelling of structures, Use of Structure wizard, Geometry, Property, Support, Loads and combinations, Analysis
	2	2.1 2-D Modelling of structures, Use of Structure wizard, Geometry, Property, Support, Loads and combinations, Analysis
	3	2.2 Analysis of a Continuous beam with more than two span subjected to udl and point load
9TH	1	2.2 Analysis of a Continuous beam with more than two span subjected to udl and point load
	2	2.2 Analysis of a Continuous beam with more than two span subjected to udl and point load
	3	2.3 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
10TH	1	2.3 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
	2	2.3 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
	3	2.3 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
11TH	1	2.3 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
	2	2.3 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
	3	2.4 Introduction to STADD foundation.
12TH	1	2.4 Introduction to STADD foundation.
	2	2.4 Introduction to STADD foundation.
	3	3.0 Revit Architecture Software: 3.1 Basics-Modify, Wall, Door, Window, Component Room, Roof, Floor, Grid, Lines, Dimension, Section, Level, Text, View
13TH	1	3.1 Basics-Modify, Wall, Door, Window, Component Room, Roof, Floor, Grid, Lines, Dimension, Section, Level, Text, View
	2	3.1 Basics-Modify, Wall, Door, Window, Component Room, Roof, Floor, Grid, Lines, Dimension, Section, Level, Text, View
	3	3.2 Modelling- Ramp, Railing, Stair
14TH	1	3.3 Site- Topo surface- Parking Component, Site Component
	2	3.4 Align, Split, Trim, offset, Match type, Line work, Paint, Scale, Unit
	3	3.4 Align, Split, Trim, offset, Match type, Line work, Paint, Scale, Unit
15TH	1	3.5 3D View
	2	3.6 Preparation of approval drawing of a double storied residential building from given specifications with its 3D view using above commands
	3	3.6 Preparation of approval drawing of a double storied residential building from given specifications with its 3D view using above commands

Practiced 14/12/2023  
I PTEF in Civil Engg.)

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14/12/22