

Lesson Plan

Course - Building Planning and Drawing Lab-II(Pr-1)

Semester- 5th

Program- Civil Engineering

Institute - Govt. Polytechnic, Sonpur

Session - 2026-2027

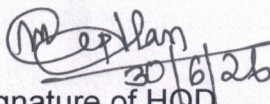
Total Load-60(4/week)

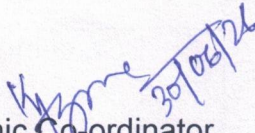
Sl. No.	Week No.	Class No.	Topic to be Covered
1	Week-1	Class-1	Introduction to AutoCAD – User interface and drawing environment
2	Week-1	Class-2	Editing and modifying existing drawings in AutoCAD
3	Week-1	Class-3	Dimensioning of drawings
4	Week-1	Class-4	Drawing section lines and hatched section lines
5	Week-2	Class-5	Writing texts on drawings
6	Week-2	Class-6	Display of drawings on computer screen
7	Week-2	Class-7	Drawing settings – Scale, units and coordinate system
8	Week-2	Class-8	Creating and editing layers
9	Week-3	Class-9	Creating and editing blocks
10	Week-3	Class-10	Object dimensioning
11	Week-3	Class-11	Preparation of AutoCAD drawing using editing and dimensioning tools
12	Week-3	Class-12	Finalization of AutoCAD drawing
13	Week-4	Class-13	Underground RCC Water Tank – Layout drawing
14	Week-4	Class-14	Underground RCC Water Tank – Plan
15	Week-4	Class-15	Underground RCC Water Tank – Sections
16	Week-4	Class-16	Underground RCC Water Tank – Detailing using AutoCAD
17	Week-5	Class-17	Two-storied Building – Load-bearing wall layout
18	Week-5	Class-18	Spread footing details
19	Week-5	Class-19	RCC Isolated Column Footing details
20	Week-5	Class-20	Combined detailed drawing using AutoCAD

21	Week-6	Class-21	Two-storied Building – Plan preparation
22	Week-6	Class-22	Elevation preparation
23	Week-6	Class-23	Sectional drawing
24	Week-6	Class-24	Completion of combined building drawing
25	Week-7	Class-25	Steel Roof Truss – Line diagram and layout
26	Week-7	Class-26	Steel Roof Truss – Bolted/Riveted joint details
27	Week-7	Class-27	Steel Roof Truss – Welded joint details
28	Week-7	Class-28	Steel Column base and foundation details
29	Week-8	Class-29	Two-storied Steel Building Frame – Layout
30	Week-8	Class-30	Bolted connection details
31	Week-8	Class-31	Welded connection details
32	Week-8	Class-32	Column base with foundation details
33	Week-9	Class-33	Architectural Views – Preparation
34	Week-9	Class-34	Drafting Views – Preparation
35	Week-9	Class-35	Plotting of Architectural and Drafting Views
36	Week-9	Class-36	Verification and final plotting
37	Week-10	Class-37	3D Modelling in AutoCAD – Surface modelling
38	Week-10	Class-38	3D Modelling in AutoCAD – Solid modelling
39	Week-10	Class-39	Rendering in AutoCAD
40	Week-10	Class-40	Editing and visualization of 3D models
41	Week-11	Class-41	Introduction to Revit/Fusion 360
42	Week-11	Class-42	Creation of basic solids in Revit/Fusion 360
43	Week-11	Class-43	Editing of solid models
44	Week-11	Class-44	Preparation of simple building model
45	Week-12	Class-45	Development of building model in Revit/Fusion 360
46	Week-12	Class-46	Viewing and modification of model
47	Week-12	Class-47	Model detailing
48	Week-12	Class-48	Finalization of building model

49	Week-13	Class-49	Project Planning using MS Project – Project creation
50	Week-13	Class-50	Entry of project activities
51	Week-13	Class-51	Activity sequencing and scheduling
52	Week-13	Class-52	Preparation of project schedule
53	Week-14	Class-53	Updating project schedule
54	Week-14	Class-54	Monitoring project progress
55	Week-14	Class-55	Preparation of project reports
56	Week-14	Class-56	Finalization of project schedule
57	Week-15	Class-57	CAD drawing – Compilation of completed drawings
58	Week-15	Class-58	Structural detailing – Final drawing preparation
59	Week-15	Class-59	Plotting of completed drawings
60	Week-15	Class-60	Finalization of CAD drawings and project scheduling outputs

Signature of Faculty
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Signature of HOD
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