

# **GOVERNMENT CO.ED POLYTECHNIC RAIPUR (C.G)**

DEPARTMENT OF CIVIL									
LESSON PLAN									
Session: 2024-25									
Session start as per university calendar:									
Course Name: BUILDING DRAWING & CAD									
Name of Subject Teacher:									
Lecturer plan T=									
Course code: 2020375(020)									
Class room Instruction Start Date:27.10.2022									
Branch: Civil		Semester: 3rd		Total hours	Class room Instruction				
S.No.	Chapter No.	Topics	Sub Topic to be covered under this unit		No. of periods planned	Actual No of periods taken	Date of Class Conduction	Use of AV resource s if any	Remarks if any
1	1	Introduction to building drawing	Size of Drawing, Layout of drawing, Title block, Scale, Dimensioning, Symbols for Doors & Windows, Drains and Pipes, Sanitary and Plumbing, Electrical Fittings as per IS 962	12	2			NA	
			Building Bye-laws for Residential Building ,Building Byelaws for Commercial Building		3				
			Plot area, built up area, plinth area, carpet area and Floor Area Ratio (FAR)		1				
			General principles of architecture : Function, Economy, Safety, Aesthetics, Economy ,		3				
			Basic elements of planning residential building: living area, sleeping area, service area, other areas. Principles of planning of residential building: Orientation, Privacy, Grouping, Circulation, Sanitation, Flexibility, Elegance, Landscaping		2				
			Dimensions for different types of rooms, height, Size of doors and windows.						
2	2	Computer aided drawing AUTOCAD feature	Graphical input devices Drawing primitives,	13	2			NA	
			Text and editing (move, copy rotate, mirror) Scale, filters and round, Grouping of entities ,Layers ,Grid, Snap Ortho ,PEDIT, display and zoom, pan, fill redraw, region, QText, offset, Annotate, Sectioning, hatching styles ,Block and its creation		3				
			Extrude, Subtract and union, Shading		4				
			Enquiry commands, plotting of drawing ,Uses of plotters, changing plot specification, application of civil engg.		3				
3	3	Layout plan, Detailed Plans Of Residential Building/ Campus	Editing and Changing Properties of Objects Filtering, Selecting, Accessing , Understand the property list ,Changing property list .	13				NA	
			Types of plan ,Site plan, location plan, Line paln, foundation plan, layout plan		2				
			Line plan of residential building.		2				
			Development of plan from line plan of residential building.		3				
			Area statement and other details.Submission drawing Working drawing.		3				

			Elevation of building., sectional elevation of building,steel truss, lean to roof		3				
4	4	Door,Window and Staircase	Types of doors and windows according to material. Detailed drawing of panel doors and windows. Detailed drawing of metal framed windows. Detailed drawing of aluminum framed window Types of staircase. Detailed drawing of straight staircase. Detailed drawing of dog- legged staircase. Detailed drawing of open newel staircase.	13	1			NA	
					3				
					1				
					1				
					1				
					2				
					4				
					1				
5	5	Perspective Drawing	Isometric projection- drawing an isometric view Terms used in perspective drawings: Station point, picture plane, axis of vision, vertical plane, horizontal plane, ground plane, eye level, line of vision, centre of vision vanishing points One point, two point and three point perspective Perspective drawing of single room Perspective drawing of two roomed building.	13	2			NA	
					2				
					2				
					3				
					3				
					2				
			<b>Total Hours</b>	<b>64</b>	<b>64</b>				