II Year-II Semester
(20CE4202) Computer Aided Drawing (Auto Cad)

Int. Marks	Ext. Marks	Total Marks		L	T	P	C
30	70	100		1	-	2	2

Pre- Requisites: Fundamentals of Engineering Drawing

Course Objectives:
- Plot the layout of building for a given details
- Draw section views.
- Create shapes and symbols for different uses.

List of Exercises:

Using AutoCAD software
I. Draw & print the following drawings.
   i.   Draw conventional signs as per I.S. standards, symbols used in civil engineering drawing.
   ii.   Prepare the King post & Queen post truss and lable the various parts.

II. Residential buildings.
   i.   Plan, Elevation, Section of single roomed building
   ii.   Single storied two bed room residential building.

III. Structural detailing drawings
   i.   Detailing of rectangular RCC beam
   ii.   Continuous Beam.
   iii. Isolated Column with square footing

IV. Drawings to be submitted for approval to corporation or municipality showing required details in one sheet such as
   i.   Plan – Showing Dimensions of all rooms.
   ii.   Section – showing Specifications and Typical Foundation Details.
   iii. Elevation.
   iv.   Site Plan – Showing Boundaries of Site and Plinth Area
   v.   Title Block – Showing signature of Owner & Licensed surveyor's.

V. File management of Drawing files
   i.   location of a particular drawing file in a computer
   ii.   saving, renaming, modifying and deleting of file
   iii. Exporting & importing of files

Course Outcomes:

S.No	Course Outcomes	BTL
1	Create, display, and plot working drawings.	L6
2	Use layering techniques.	L3
3	Construct technical drawings using a standard computer aided drafting program.	L5
4	Identify, operate and adjust input and output devices.	L2
5	Demonstrate file management techniques.	L2

Correlation of COs with POs& PSOs:

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
1	3	2	-	-	3	-	-	-	2	2	-	1	-	-	1
2	3	2	-	-	3	-	-	-	2	2	-	1	-	-	1
3	3	2	-	-	3	-	-	-	2	2	-	1	-	-	1
4	3	1	-	-	3	-	-	-	2	2	-	1	-	-	1
5	3	2	-	-	3	-	-	-	2	2	-	1	-	-	1