



## **C.U.SHAH UNIVERSITY – Wadhwan City**

**FACULTY OF:** - Technology and Engineering (Diploma Engineering)

**DEPARTMENT OF:** - Civil Engineering

**SEMESTER:** - IV **CODE:** - 2TE04CAD1

**NAME –** Computer Aided Drawing

### **Teaching & Evaluation Scheme:-**

Subject Code	Subject Name	Teaching Scheme (Hours)				Credits	Evaluation Scheme							
		Th	Tu	Pr	To		Theory				Practical (Marks)		Total	
							Sessional Exam		University Exam		Pr	TW		Pr
							Marks	Hours	Marks	Hours				
2TE04CAD1	Computer Aided Drawing	03	00	02	05	04	30	1.5	70	03	30	20	---	150

**Objectives:** To understand advanced concepts of computer aided design and drafting.

**Pre-requisite:** Thorough knowledge of computers and analytical ability.

### **Course Outlines:-**

Sr. No.	Course Contents	Teaching Hours
1	<b>CAD Software :</b> Definition, Usage & Application to the Industry, Merits & Demerits. Various drawing softwares available in market: AutoCAD, ZWCAD, Felix Cad, Auto Civil, 3D Max etc. Starting up with AutoCAD, Introduction of the user interface (Tool Bars, Drop down menus, Command line), Opening & Saving of a CAD file at the desired location.	15
2	<b>CAD Commands :</b> WCS icon, UCS icon, co-ordinates, drawing limits, introduction to various modes like grid, snap ortho, polar.etc., Drawing commands: line, polyline, multiline, circle, rectangle, ellipse, polygon etc. Editing commands: Copy, move, offset, fillet, chamfer, trim, Lengthen, mirror, rotate, array etc. Working with hatches, fills, various types of dimensioning, text, match properties etc.	15
3	<b>Preparation of Drawings :</b> Generation of a line plan Drawing a Detailed Plan, elevation, section for a residential bungalow alongwith site plan, Area statement & Name plate. Drawing a Detailed Plan, elevation, section for any public/commercial Building alongwith site plan, Area statement & Name plate. Generation of 3D view and knowing how to Print/plot drawings at various scales. Introduction to other drafting softwares like Auto Civil, 3D Max.etc.	15

### **Learning outcomes:**

Gain the ability to use modern computer softwares and technology to create detailed and accurate plans.

### **Books Recommended:**

- AutoCAD2009 –A problem solving approach (AutoDesk press)