

**GUJARAT TECHNOLOGICAL UNIVERSITY**Syllabus for Diploma of Vocation (D.Voc), 2<sup>nd</sup> Semester

Branch: Architectural Assistantship

Subject Name: CAD

Subject Code: 1220604

With effective  
from academic  
year 2021- 22**Teaching and Examination Scheme:**

Teaching Scheme			Credits	Examination Marks				Total Marks
L	P	OJT		Theory		Tutorial / Practical		
			University exams (ESE)	Progressive Assessment (PA)	External Practical/ Viva Exam (ESE)	Internal Practical/ Viva Exam (ESE)		
2	-	-	2	50	-	-	-	50

L-Lecture; P-Practical; OJT – On Job Training; C – Credit; ESE – End Semester Examination; PA – Progressive Assessment

**SEMESTER II****Focus :**

Fundamentals of Computer and getting acquainted with basic commands for CAD drawings. To develop skills required for preparation of presentation drawings with the use of a computer as a digital medium.

Sr No.	Contents:	Hr
1	• Fundamentals of Computer, terminology used, basics of various operating systems; Terminology of Windows;	6
2	• Introduction to MS word, Excel & PowerPoint presentation	6
3	• Introduction to AutoCAD	6
4	• Creating Drawings: Line, Circle, rectangle, Polygon, Arc commands	6
5	• Modifying Drawings: Move, copy, offset, mirror, trim, extend etc. commands	6
6	• Drawing Tools: Polar and ortho dynamic Input, object snap etc.	6
7	• Dimensioning and Text: Creating single line text and multiline text	6
	<b>Total</b>	<b>42</b>

**Projects:**

Create 2D isometric objects using drafting tools of a small residential unit drafting and presentation.

**Skills:**

Preparation of 2D drafting and presentation drawings with the use of a computer as a digital skill.

**Method:**

Practice in the Lab.

**Suggested Specification table with Marks (Theory):**

<b>Distribution of Theory Marks</b>				
<b>R Level</b>	<b>U Level</b>	<b>A Level</b>	<b>N Level</b>	<b>E Level</b>
<b>5</b>	<b>20</b>	<b>15</b>	<b>5</b>	<b>5</b>

Legends: R: Remembrance; U: Understanding; A: Application, N: Analyze and E: Evaluate and above levels (Bloom's Taxonomy)