

**GUJARAT TECHNOLOGICAL UNIVERSITY**Syllabus for Diploma of Vocation (D.Voc), 1st Semester

Branch: Architectural Assistantship

Subject Name: Technical Drawing – I

Subject Code: 1210602

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

Teaching Scheme			Credits	Examination Marks				Total Marks
L	P	OJT	C	Theory		Tutorial / Practical		
				University exams (ESE)	Progressive Assessment (PA)	External Practical/ Viva Exam (ESE)	Internal Practical/ Viva Exam (ESE)	
3	-	-	3	50	-	-	-	50

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

SEMESTER I

Focus : To introduce the students to the fundamental techniques of Architectural Drawings by practice on the drawing board by conventional method.

SR NO	Contents	Hrs
1	• Familiarization with drawing materials and equipment.	6
2	• Architectural lettering and understanding of scales.	6
3	• Line intensity and precision in drawings.	6
4	• Principles of Plane and Solid Geometry.	6
5	• Orthographic Projections of planes and solids.	6
6	• Isometric and Axonometric Views	6
7	• Making basic drawings (Measure Drawing)	6
	Total	42

Projects: Series of exercises and lecture presentations focusing on different topics. Making students understand the concept using Model based activities.

Skills : The Students are expected to develop a series of drawing skills, understanding of scale and proportion, formatting and composition of sheets, lettering techniques, exploring visualization skills of objects in two dimensional and three dimensional views. Understanding basic measure drawing techniques.

Method : A series of exercises to be completed in the studio/classroom.

References :

- Bhatt N.D. & Panchal V.M.- Engineering Drawing
- Ching D.K.-Visual Dictionary of Architecture
- Ching D.K.-Architectural Graphics

- Gill Robert- Rendering with Pen & Ink
- Leinbach B. Richard-Visualization Techniques

Suggested Specification table with Marks (Theory):

Distribution of Theory Marks				
R Level	U Level	A Level	N Level	E Level
5	20	15	5	5

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