

GUJARAT TECHNOLOGICAL UNIVERSITY
BRANCH NAME: B.ID.
SUBJECT NAME: DIGITAL TECHNOLOGY-I
SUBJECT CODE: 2X35107
2nd Year: Semester: 3

Prerequisite:

It is a beginner course. There is no prerequisite for this course.

Rationale:

- CAD – 3D Modeling.
- Software related to Graphics.

Teaching and Assessment Scheme:

Teaching Scheme			Credits C	Examination Marks				Total Marks	University Exam Type
Lectures	Tutorials	Studio		External exam		Internal exam			
				(ESE)Theory	(ESE) Viva	(PA)Theory	(PA)Viva		
2	0	0	2	NA	NA	50	50	100	Viva

Content:

Sr. No.	Content	Total Hours*	% Weightage*
1	Unit 1: CAD–2D and 3D drafting through software’s like Auto CAD, Sketch Up, etc.	6	15
2	Unit 2: Basic concepts of 3D modeling: the UCs, Modeling Tools techniques and commands, extrusion of solids, editing of solids, viewpoints and perspectives, surface creation and modifications, and exporting the model in to other software for further work.	6	15
3	Unit 3: Presentation and editing software’s such as Corel, Adobe Photoshop, etc.	8	30
4	Unit 4: Introduction to Revit OR Archicad software and Introduction of Building services using the software.	12	40

*: indicative

Thrust / Projects:

3D Drawings and presentation drawings for the chosen project.

Reference Books:

- Alan Jefferis&David : Architectural Drafting & Design.
- A. Madsen : Virtual Architecture.

- Software User's Guide.
- Elys john : Cad Fundamentals for Architecture
- Danial Tal: Rendering in Sketch Up.
 - *- this is suggestive for common purpose. Faculty may decide on this, considering student group and institution philosophy