GUJARAT TECHNOLOGICAL UNIVERSITY
BRANCH NAME: B.Arch.
SUBJECT CODE: 2X45005
SUBJECT NAME: Computer Application-I
3rd Year, 5th SEMESTER

Type of course: B.Arch.

Prerequisite: all previous Design studios

Rationale:
Preparation of two-dimensional architectural drawings (including plans, elevations and sections) incorporating layers, line-weights, texts, dimensioning and formatting of drawings for taking prints and plots.
Basic three-dimensional modelling for architectural study

Teaching and Examination Scheme:

Teaching Scheme			Credits	Examination Marks				Total Marks
				Theory Marks		Practical Marks		
L	T	P	C	ESE (E)	PA (M)	ESE (V)	PA (I)	
2	1	0	3	00	00	40	60	100

Content:

Sr. No.	Topics	Teaching Hrs.	Weightage %
1	**Architectural 2D CAD drafting:** use of 2d drafting software like AutoCAD	**18**	**40**
2	**3-D modelling:** use of 3d modeling software like SketchUp	**6**	**30**
3	**Digital Presentation:** PowerPoint, Word, Excel	**6**	**30**

Suggested Specification table with Marks (Theory):

Distribution of Theory Marks					
R Level	U Level	A Level	N Level	E Level	C Level
05	**15**	**30**	**25**	**05**	**20**

Legends: R: Remembrance; U: Understanding; A: Application, N: Analyze and E: Evaluate C: Create and above Levels (Revised Bloom's Taxonomy)
Note: This specification table shall be treated as a general guideline for students and teachers. The actual distribution of marks in the question paper may vary slightly from above table.

Reference Books:

1. The Art of Mechanical Drawing. A practical course for Drafting and design, By William F. Willard
2. Manual of Engineering Drawing Technical Product specification and documentation to British and international standards by Colin H.Simmons, Neil Phelps & Dennis E. Maguire
3. Working Drawings Handbook, by Keith Styles

Course Outcome:

Sr.No	CO Statement	Marks % Weightage
Upon completion of this course, the students should be able to:		
1	**Understand** the use of software	25
2	**Evaluate** the time management for development of the drawing	25
3	**Explain** the use of software	25
4	**Propose** the presentations of work	25

Term Work:

Prepare presentation report, panel and drawings using software.