GANPAT UNIVERSITY										
FACULTY OF ARCHITECTURE DESIGN & PLANNING										
Programme	Bachelor of Design					Branch/Spec	INSTITUTE OF DESIGN			
Semester	I					Version	3.0.0.0			
Effective from Academic Year		2021-22				Effective for the batch Admitted in			June - 2021	
Subject code	3IA03GT		Subject Name			GRAPHICS AND TECHNIQUES - I				
Teaching scheme						Examination scheme (Marks)				
(Per week)	Lecture(DT)		S/W/T		Total		CIE	SE	UE	Total
	L	TU	S/W/T	TW						
Credit	2	-	4	-	6	Theory	40	20	40	100
Hours	2	-	4	-	6	Jury/Viva/TW /TW	-	-	-	-

Objective:
- The course focuses on "Visual Literacy" which enables students to represent ideas technically and visually accurate.
- This course introduces students to the fundamental techniques of architectural drawing and development of appropriate manual and computer skills for visualization and technical representation of built forms in different types of drawings. The course also acts as a bridge building cognitive and motor skills & qualifies students to understand the importance of scale in representing drawings.

Learning Outcome:

After completion of this course, the student will be able to develop a set of fundamental skills:

Manual Skills:
• Understand architectural drafting tools and their application
• Understand the concepts of architectural drawing techniques
• Read Architectural drawings (Plan, Section, Elevation)
• Understand scale, proportions and volume

Computer Skills:
• Understand the Software – AutoCAD and its application in the field of design

CONTENT AND TEACHING UNITS

Unit	Content	HRS
I Manual Drafting Tools and Techniques	• Introduction to drafting tools and its application. • Introduction to fundamental elements of drawing -lines, line type and intensity. • Developing & exploring various techniques to use typography – styles and character	18
II Scale and Proportions	• Develop sense of scale and proportions of the given object/space/ form. • Develop understanding and applicability of scale in drawings.	12
III Drawing Literacy	• Develop understanding of Design drawings - Plans, Sections and Elevations. • Drafting technical drawings based on learnings of Module-I & II.	24

IV AutoCAD Tools and Techniques	• Introduction to AutoCAD tools and its application. • Learning to draw in the AutoCAD software.	18
V Drawing and Layering	• Introduction to Drawings – Plan, Section, Elevations. • Understanding the layer system, layer manager.	24
VI Layouts & Plotting	• Introduction to Layouts – Panel Composition with various scales. • Understanding Scales, related line weights.	12

Text Books	
1	NA

Reference Books	
1	Francis D. K. Ching, 'Drawing, Space, Form, Expression', John Wiley & Sons, 2015
2	K. Venugopal, 'Engineering Drawing And Graphics + AutoCAD', New Age International, 2007
3	Dennis J. Hall, Nina M. Giglio, 'Architectural Graphic Standards', John Wiley & Sons, 2015

Note: Continuous Internal Evaluation shall be divided into A. 20% -Attendance B. 80% -Periodic Evaluation

CIE- Continuous Internal Evaluation, SE-Summative Evaluation (Jury/Viva/TW/Theory Exam), UE-University Exams (Jury/Viva/TW/Theory Exam)