	School of Planning and Architecture: Vijayawada
	(An institution of National Importance under the Ministry of Education, Govt. of India)
	Survey No.4/4, ITI Road, Vijayawada-520008, Andhra Pradesh, India

Department of Architecture		
Course:	**ARC113 - Architectural Drawing and Graphics I**	**Class:** B.Arch 1st Year I-Semester 2024
Instructors:	**Section A** Santhosh Kumar Pedagadi AF/VF **Section B** Dr. Faiz Ahmed Ar. Shreeleha C	**Internal Assessment:** 50 **External Theory Exam: 50**
Contact Periods/ week: 05 periods.(55 min each)		**Total Marks:** 100
Time Table:	Wednesday (05 periods)	**Credits:** 5
Attendance:	Min 75%	
Min. Passing Marks:	50% each in Internal & External	

Objective:

- Introducing students to fundamental techniques of architectural drawings and to equip with the basic principles of representation.
- Enhancing the skills in developing a graphical language of architecture and modelmaking.

Week	Lecture Plan	Remarks/Topic of Assignment
Week 1	**Unit I Learning Sketching, Drawing, and visual thinking** Free-hand drawings; indoor & outdoor sketching; drawing from observation; terminology & abbreviations used in architectural drawings; Sheet layouts; line & shape	Lecture/Demonstration

Week 2	**Unit I Learning Sketching, Drawing, and visual thinking** sketching, drawing from observation, terminology & abbreviations used in visual representation, Sheet layouts, line & shape, tone & texture, figure & ground, Color & value, lettering & art lettering, dimensioning, shading, symbols & scale.	Lecture/Demonstration/Visit to Art Lab
Week 3	**Unit I Learning Sketching, Drawing, and visual thinking** Free-hand drawings; indoor & outdoor sketching; drawing from observation; terminology &abbreviations used in architectural drawings; Sheet layouts; line & shape; tone & texture; figureground; Colour & value; lettering & art lettering; dimensioning; shading; symbols & scale; Representation technique in plan, elevation and section; Representation of trees, hedges, foliage, human figures, cars, symbols; exposure to various mediums of presentation.	Lecture/Demonstration
Week 4	**Workshop**	
Week 5	**Unit II Need for Architectural Models** Role of scale-models in design; General practices in model making; Types of models; block, detailed, construction & interior models; Various materials and tools to be used in model making; Use of materials, viz. paper, mount board, cardboard in architectural models; Use of materials viz. Clay, Plaster of Paris (POP) in architectural models; Simple exercises in cutting, finishing and joinery with simple blocks, composition of basic geometrical forms etc	Lecture/Demonstration
Week 6	**Unit III Development of Surfaces Models** Methods of surface development by Parallel-line, Radial-line, Triangulation methods, approximate methods, development of lateral surfaces of right solids, viz.	Lecture/Demonstration/Visit to Material Museum & Lab
Week 7	**MID-TERM ASSESSMENT**	

Week 8	**Unit IV Geometric Drawings and Projections** Construction of lines, angles, Constructions of planes-circles, tangent, curves, conic, sections and regular	Lecture/Demonstration

	polygons. Introduction to projection; methods of orthographic projection; Projection of Points, lines, planes and solids; Section of solids such as prisms, pyramids, cylinders, cones and spheres etc., Development of surfaces of solids, Intersection of surfaces.	
Week 9	**Workshop**	
Week 10	**Unit IV Geometric Drawings and Projections** Construction of lines, angles, Constructions of planes-circles, tangent, curves, conic, sections and regular polygons. Introduction to projection; methods of orthographic projection; Projection of Points, lines, planes and solids; Section of solids such as prisms, pyramids, cylinders, cones and spheres etc., Development of surfaces of solids, Intersection of surfaces.	Lecture/Demonstration
Week 11	**Unit V Isometric and Axonometric Views** Introduction to views, types and advantages. Isometric, Axonometric and Oblique view of objects; building components and Interior of the room.	Lecture/Demonstration
Week 12	**Unit V Isometric and Axonometric Views** Introduction to views, types and advantages. Isometric, Axonometric and Oblique view of objects; building components and Interior of the room.	Lecture/Demonstration
Week 13	Review of submissions and documentation	
Week 14	Review of submissions and documentation	
Week 15	**3rd STAGE ASSESSMENT**	

S. No.	Stages of Evaluation	Weightage
1	First stage: Assessment	15
2	Mid Semester Examination	20
3	Third stage: Assessment	15
	Total	50

Students finishing this course will be able to:

1. **Construct the 3D views and perspective drawings of the buildings.**
2. **Understand advanced documentation and measured drawing techniques.**

References:

- Ching, F. D. K. (2011). A Visual Dictionary of Architecture. 2nd Ed. John Wiley & Sons.
- Ching, F. D. K. (2009). Architectural Graphics. 5th Ed. New Jersey : John Wiley & Sons.
- Criss. B. M. (2011). Designing with models: A Studio guide to Architectural Process Models.3rd Ed. Hoboken :John Wiley & Sons. Kieran, S. and Timberlake, J. (2008). Lobolly House : Elements of a New Architecture. New
- York : Princeton Architectural Press.
- Morgan, C. L. and Nouvel, J. (2002). The Elements of Architecture. London : Thames & Hudson.
- Werner, M. (2011). Model Making. New York: Princeton Architectural Press.
- Zell, Mo. (2008). The Architectural Drawing Course. 1st Ed. Thames and Hudson.

Course Instructors:	**Head of Department :**
sd/-	sd/-
Section A	(Dr. Srinivas Daketi)
Santhosh Kumar Pedagadi	
AF/VF	
Section B	
Dr. Faiz Ahmed	
Ar. Shreeleha C	