



Department of Architecture

Course: Advanced Visual Representation **Class:** I Yr. II Sem. B.Arch, 2017-18 A.Y
Instructors: Pushpendra Kumar, Madhav Rao, Barun Mandal **Internal Assessment:** 50
External Theory I **External Theory Exam:** 50
Contact Periods/ week: 5 hours **Total Marks:** 100
Time Table: **Credits:**
Attendance: Min 75% **Min. Passing Marks:** 50% each in Internal & External Assessment, 50% in Aggregate

Objective:1. Introducing students to fundamental techniques of architectural representation and to equip with the basic principles of representation.

2. Enhancing the skills in developing a graphical language of architecture.

Out Line of the Course:

LECTURE PLAN

S. No.	Week	TOPIC OF CLASS LECTURE & DISCUSSION	CLASS ACTIVITIES & ASSIGNMENTS
1	Week 1	Unit-I: Isometric and Axonometric Views Introduction to views, types and advantages. Isometric, Axonometric and Oblique view of objects, building components and Interior of the room. Identification of famous buildings for drawing carrying out studio exercise.	Interaction and Library visit
2	Week 2	Unit-I: 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/ Interaction and Library visit
3	Week 3	Unit-I: Isometric and Axonometric Views Measured drawings, plans, elevations and sections of identified spaces. Starting of isometric drawings of building models.	Demonstration/ Studio exercise / Model Making
4	Week 4	Unit-I: Isometric and Axonometric Views Measured drawings, plans, elevations and sections of identified spaces. Starting of isometric drawings of building models.	Demonstration/ Studio exercise
5	Week 5	Unit-II: Fundamentals of Perspectives-I Introduction to perspectives, difference between views & perspectives, Types of perspectives: one point, two point & three point, Anatomy of Perspectives - Objects, study of picture plane, Station point, vanishing point, Eye level, Ground level etc., its variation & effects.	Assessment I and review of work
6	Week 6	Unit-II: Fundamentals of Perspectives-I Anatomy of Perspectives - Objects, study of picture plane, Station point, vanishing point, Eye level, Ground level etc., its variation & effects.	Lecture/ Demonstration/ Studio exercise/ review of works

7	Week 7	Unit-III: Fundamentals of Perspectives-II Perspective drawing of simple and complex objects, one point and two point perspective of interiors and exteriors, sectional perspectives Perspective drawings of the building models. One point/Two point	Lecture/ Demonstration/ Studio exercise/ review of works
8	Week 8	Unit-III: Fundamentals of Perspectives-II Perspective drawing of simple and complex objects, one point and two point perspective of interiors and exteriors, sectional perspectives Perspective drawings of the building models. Sectional Perspective.	Lecture/ Demonstration/ Studio exercise/ review of works
9	Week 9	Unit-IV: Sciography Introduction to Sciography, Principles of shade & shadow. Shadows of lines, planes & simple solids due to near & distant sources of light. Shadows of architectural elements, Construction of sciography on building, Application of sciography on pictorial views.	Lecture/ Demonstration/ Studio exercise/ review of works
10	Week 10	Unit-IV: Sciography Introduction to Sciography, Principles of shade & shadow. Shadows of lines, planes & simple solids due to near & distant sources of light. Shadows of architectural elements, Construction of sciography on building, Application of sciography on pictorial views. Sciography of simple objects and the building models.	Lecture/ Demonstration/ Studio exercise/ review of works
11	Week 11	Unit-V: Rendering Techniques Representation technique of plan, elevation & section in architectural drawing. Kinetics & Advanced Visual Representation II lecture plan, I Year II sem A.Y. 2016-17 Optics, Monochromatic & different themes of rendering, architectural rendering techniques using pen & ink, color, values, tones, and general approach to rendering. Architectural representation of trees, hedges, foliage, human figures, cars, symbols etc., exposure to various mediums of presentation	Assessment II and review of works
12	Week 12	Rendered drawings of identified spaces.	Review of works
13	Week 13	Rendered isometric drawings of building models.	Review of works
14	Week 14	Rendered Perspective drawings of building models.	Review of works
15	Week 15	Rendered Sciography drawings of building models.	Assessment III and review of works
16	Week 16	Review of submissions and documentation	

***Note** * The Marks allotted against each category are tentative. Categories of evaluation are only indicative and may increase or decrease.

Tentative break-up of Internal Assessment Marks:

S.No.	CATEGORIES OF EVALUATION	MARKS
1	Sketching Assignment - I	15
2	Sketching Assignment - II	15
3	Test	20
	Total	50

References:

- Arnold, D. (1969). Architectural rendering. California : Walter Foster Art Books.*
- Batley, C. (1973). Indian Architecture. Bombay : D. B. Taraporevale Sons.*
- Bhatt, N. D. (2003). Engineering Drawing. Anand : Charotar Publishing House.*
- Ching, F. D. K. (2009). Architectural Graphics. 5th Ed. Hoboken : John Wiley & Sons.*
- Ching, F. D. K. (2011). A Visual Dictionary of Architecture. 2nd Ed. Hoboken:John Wiley & Sons.*
- Dinsmore, G. A. (1968). Analytical Graphics. Canada : D. Van Nostrand, Company Inc. Ed. New York : McGraw-Hill.*
- Halse, A. O. (1972). Architectural rendering; the techniques of contemporary presentation. 2nd*
- Holmes, J. M. (1954). Applied Perspective. London : Sir Isaac, Pitman and Sons Ltd.*
- Narayana, K. L. and Kannaiah, P. (1988). Engineering Graphics. New Delhi : Tata McGraw-Hill.*
- Norling, E. (1969). Perspective drawing. California : Walter Foster Art Books.*
- Pandya, Y (2014). Elements of space making. Ahmedabad: Mapin Publishing pvt.*
- Robert, W. G. (2006). Perspective: From Basic to Creative. 1st Ed. London : Thames and Hudson.*

Course Instructor:

Head of the Department: