ARCHITECTURAL GRAPHICS II
AR 151

Lecture	**: 2**	**Year : I**
Tutorial	**: 0**	**Part : II**
Practical	**: 3**	

Course Objectives:

This course introduce two and three dimensional compositions, color application and presentational techniques in architectural drawing and understanding architectural graphics as a means of visual communication. This course provide students with basic knowledge of graphical and presentational techniques through various exercises

1   Sciography   (10 hours)

1.1   Introduction - terms of sciography
1.2   Types of source of light: Natural and Artificial
1.3   Principles of sciography
1.4   Its importance, use and application
1.5   Types of Sciography - Orthographic Sciography, Parallel projection Sciography and Perspective projection Sciography
1.6   Various exercises in Sciography from design element to architectural drawings
1.7   Application of Sciography in geometrical and architectural drawings

2   Color theory & its applications   (6 hours)

2.1   Color
2.1.1   Color wheel
2.1.2   Color scheme
2.1.3   Properties of Color
2.1.4   Effects of Color - Physical, Psychological and Emotional
2.2   Application of colors in architectural buildings (Exterior and Interior)
2.3   Composition of Collage/ Magazine cover

3   Appropriate rendering techniques in Buildings   (6 hours)

3.1   Floor Plans including furniture layout
3.2   Elevations
3.3   Sections
3.4   Site Plan and Master Plan
3.5   Landscape
3.6   Shadow construction in plans and elevations
3.7   Perspective drawing (Exterior & Interior)

4   Architectural rendering development skill in different mediums   (8 hours)

    4.1   Rendering in architectural building (Exterior/Interior)
          4.1.1   Pencil rendering
          4.1.2   Pen and Ink rendering
          4.1.3   Pencil color/Water color rendering

Practical   **(45 hours)**

1. Exercise on Sciography projection of different solid figures
2. Exercise on Sciography projection of different solid figures
3. Exercise on Sciography projection into wall and ground plane.(Solid objects)
4. Exercise on Sciography projection of roof overhang into wall plane
5. Exercise on Sciography projection of walls and roof overhang into ground plane
6. Exercise on Sciography projection of colonnades and arches into wall and ground planes
7. Exercise on Sciography projection of different steps
8. Exercise on Sciography projection of chimney stacks and dormer window in pitched roof (two way slope roof)
9. Exercise on Sciography projection of a set of a residential building (Elevations, site plan with landscape elements.)
10. Exercise on color wheel
11. Color Scheme
12. Tint and Tone
13. Application of color in Magazine Cover/ Collage
14. Rendering techniques on Floor Plans including furniture layout (Pencil medium)
15. Rendering techniques on Site plan/Master plan (Pencil medium)
16. Exercises on rendering techniques in different mediums (Pencil colors, pen and ink and water color)
17. Delineate a set of simple residence with shadow construction (sciography) in any medium
18. Delineate a perspective view (angular exterior view) of a set of simple residence in any medium
19. Delineate an interior perspective view (parallel perspective) of living space of a simple building in any medium including flooring, furnishing and fixtures

Final Exam

The questions will cover all the chapters in the syllabus. The evaluation scheme will be as indicated in the table below:

Chapter	Hours	Mark distribution*
1	10	20
2	6	10
3	6	15
4	**8**	**35**
Internal Assessment (10%)		**10(Internal Assessment)**
Attendance	**70%**	**10**
		100

* There may be minor deviation in marks distribution.

References

1. D.K.Ching, "Architectural Graphics"
2. K. Venugopal "Engineering Drawing & Graphics"
3. N.D. Bhatt & V.M. Panchal, "Engineering Drawing (Plane & Solid Geometry)"
4. T.E. French, C.J. Vierck and R.J. Foster, "Engineering Drawing Graphic Technology"
5. Michael E. Doyle, "Colour Drawing"
6. Robert W. Gill, "Rendering with Pen & Ink"
7. Robert W. Gill, "Basic Rendering"
8. Paul Laseau, Graphic Thinking for Architects and Designers.
9. Halse, "Rendering Techniques"
10. Mike W. Lin, Design and Drawings with Confidence
11. William P. Spence, "Architecture Drawing".