NIRMA University
Institute of Architecture and Planning
Bachelor of Architecture
Semester-II

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Course Code	**2AR264**
Course Title	**Architectural Graphic Skills & Representation– II**

Course Learning Outcomes (CLO):

At the end of the course, students will be able to –

- Learn various techniques to represent an idea 3-dimensionally making use of the concept of sciography and perspective.
- Maximize the skills of visualization and learn to utilize them to represent basic form and space.

Syllabus: **15 weeks (4 hours/week)**   **Total Teaching hours**: **60 Hr**

Unit No.	Syllabus: Topic	Sub Topic	Teaching hours:
1	Sciography	• On Flat Surfaces (horizontal, vertical and inclined surfaces) • On Curved Surfaces • Sciography of Architectural Elements (Walls, Steps, Roof etc..)	24 hours
2	Perspective	• Perspective drawing as representation tool • Different Types of Perspective Drawings and it's applications • One Point Perspective • Two Point Perspective • Perspective Views of forms and Spaces	24 hours
3	Allied Techniques (Part 2 of 2)	• Visualization Software (Sketch-UP, Rhino or equivalents) • Model Making • Various free hand sketching exercises to strengthen visualization and representation.	12 hours

Suggested Readings:

1. Bennett, W. I. (1931). *Architectural graphics. Elements of descriptive geometry, shades and shadows, perspective.* Ann Arbor, MI: G. Wahr.
2. Bhatt, N. D. (2014). *Engineering Drawing: Plane and Solid Geometry.* Anand: Charotar Publishing House Pvt.
3. Ching, F. D. (2015). *Architectural graphics.* Hoboken: John Wiley & Sons.
4. Ching, F. D., & Juroszek, S. P. (2018). *Design drawing.* Hoboken, NJ: John Wiley & Sons.
5. Chopra, A., Town, L., & Pichereau, C. (2013). *Introduction to Google Sketchup.* New York: Wiley.
6. Cooper, D. (2007). *Drawing and perceiving: Life drawing for students of architecture and design.* Hoboken: Wiley.
7. Donley, M., & Sonder, N. (2016). *SketchUp & LayOut for architecture: The step-by-step workflow of Nick Sonder.* Bristol, RI: Bizfound.
8. Helsel, J. D. (2007). *Engineering drawing and design.* Place of publication not identified: Glencoe Mcgraw-Hill Post.
9. Metzger, P. W. (2007). *The Art of Perspective: The Ultimate Guide for Artists in Every Medium.* North Light Books.