

NIRMA UNIVERSITY

Institute of Architecture and Planning

Bachelor of Architecture

Semester-I

L	W	S	C
-	-	8	12

Course Code	2AR171
Course Title	Architectural Design Studio - I

Course Learning Outcomes (CLO):

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

- Interpret basic vocabulary of design and architecture
- Identify and map human activity in space
- Infer, represent and communicate design

Syllabus: 15 weeks (9 hours/week)

Total Teaching hours: 135 Hrs

Sr. No.	Syllabus: Topic	Sub Topic	Teaching hours:
1	Introductory exercises based on 'Learning by doing'	<ul style="list-style-type: none">• To develop representation and communication skills through exercises involving drawing, sketching, graphic language, model-making, collage, etc• Undertake exercises to enhance creative thinking	54 hours
2	Introduction to studio-based iterative design process	<p>To develop a small scale design project for comprehension of design criteria involving the following:</p> <ul style="list-style-type: none">• Understanding human activity and behaviour in space by activity mapping, anthropometric studies, etc.• To make, explore, feel and mould space based on design ideas/principles	54 hours

w.e.f. academic year 2020-21 and onwards

		<ul style="list-style-type: none"> • Undertake hands-on work and creative thinking. Explore ‘making’ through various mediums and techniques of representation. • Introduction to visualization and representation of an architectural environment’s spatial qualities like spatial enclosure, depth, height, view, orientation, etc and tectonic characteristics like surfaces, material, shape, texture, etc 	
3	Representation and communication of design.	<ul style="list-style-type: none"> • Use of graphic language and representational techniques for communication of design 	27 hours

L= Lecture, W= Workshop, S= Studio, C= Credit

Suggested Readings:

- 1) Tilley, A. R., & Henry Dreyfuss Associates. (2002). *The measure of man and woman: Human factors in design*. New York: Wiley.
- 2) Rowland, K. (1971). *Learning to see*. London: Ginn.
- 3) Rowland, K. (1969). *Educating the senses*. London: Ginn.
- 4) Rowland, K. (1964). *Looking and seeing*. Melbourne: Cheshire.
- 5) Rowland, K. (1981). *Pattern and shape*. Aylesbury: Ginn and Co.
- 6) Rowland, K. F. (1981). *The development of shape*. Aylesbury: Ginn.
- 7) Rowland, K. F. (1981). *The shapes we need*. Aylesbury: Ginn.
- 8) Thomas, R. K. (1969). *Three-dimensional design: A cellular approach*. New York: Van Nostrand-Reinhold Co.
- 9) Wong, W. (1972). *Principles of form and design*. New York: John Wiley & Sons, Inc.
- 10) Bates, K. F. (1979). *Basic design; principles and practice*. London: Barnes & Noble.
- 11) Karszen, A., & Otte, B. (2014). *Model making: Conceive, create and convince*. Amsterdam: Frame Publishers.
- 12) Brownell, B. E. (2017). *Transmaterial next: A catalog of materials that will redefine our future*. New York: Princeton Architectural Press.
- 13) Neufert, E., Neufert, P., & Kister, J. (2012). *Neufert*. Oxford: Wiley-Blackwell.
- 14) Ching, F. D. K., & Eckler, J. F. (2013). *Introduction to architecture*. Hoboken: Wiley.
- 15) Ching, F. D. K. (2007). *Architecture--form, space, and order*.
- 16) Jones, W. (2011). *Architects' sketchbooks*. London: Thames & Hudson.