

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

<b>L</b>	<b>W</b>	<b>S</b>	<b>C</b>
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<b>Course Code</b>	<b>2AR261</b>
<b>Course Title</b>	<b>Architectural Design Studio - II</b>

**Course Learning Outcomes (CLO):**

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

- Select using basic architectural design concepts, tools and methods.
- Interpret spatial organisation, structure, hierarchy and scale using architectural elements.
- Create design for a particular programme and context.

**Syllabus:** 15 weeks (8 hours/week)

**Total Teaching hours: 120 Hrs**

<b>Sr. No.</b>	<b>Syllabus: Topic</b>	<b>Sub Topic</b>	<b>Teaching hours:</b>
1	Design exercises based on 'Learning by doing'.	To have a short introductory exercise to: <ul style="list-style-type: none"> <li>• Understanding Natural and man-made place</li> <li>• Human activity and behaviour in Space</li> <li>• Exploration of spatial qualities like spatial enclosure, depth, volume, view, orientation, etc and tectonic characteristics like form, surfaces, material, shape, texture, etc</li> <li>• Nature of concepts, ideas and design principles</li> </ul>	32 hours
2	Introduction to studio-based iterative design process	<ul style="list-style-type: none"> <li>• To develop a design project with specific site and programme of residential or institutional nature.</li> <li>• Introduction to requirements of the project like built-up area, utility, activity pattern, open space, etc</li> <li>• Introduction to site parameters like landscape, ground morphology, site climate, orientation, etc</li> <li>• Integrate learning from programmatic and site analysis</li> <li>• Introduction to processes of conceptualization, ideation, diagramming, etc</li> <li>• Engage in space making exercises/activities using architectural elements. Explore relationship of part to the whole and whole to the part.</li> </ul>	42 hours

		<ul style="list-style-type: none"> <li>• Explore relationship between space, order, tectonics, site, use and concept to create a meaningful experience of Architectural space.</li> <li>• Undertake appropriate exercises/activities to visualize and represent design learning.</li> </ul>	
3	Design Resolution with Synthesis of design parameters.	<ul style="list-style-type: none"> <li>• Develop understanding of hierarchy of spaces, nature of architectural spaces and quality of spatial enclosures, etc</li> <li>• Achieve synthesis of design criteria and parameters like spatial quality, form, function, response to site, etc</li> <li>• Develop architectural language using architectural elements</li> </ul>	23 hours
4	Representation and communication of design	<ul style="list-style-type: none"> <li>• Use of appropriate graphic and technical representational skills to communicate architectural design comprehensively</li> </ul>	23 hours

#### Suggested Readings:

1. Agkathidis, A. (2016). *Generative Design: Form-finding techniques in architecture*. London: Laurence King Publishing
2. Agkathidis, A. (2012). *Modular structures in design and architecture*. Amsterdam: BIS Publishers
3. Agkathidis, A. (2017). *Biomorphic structures*. London: Laurence King.
4. Jormakka, K., Schürer, O., & Kuhlmann, D. (2014). *Design methods*. Basel: Birkhäuser.
5. Kim, S., & Pyo, M. (2012). *Mobile architecture*. Berlin: DOM.
6. Tilley, A. R., & Henry Dreyfuss Associates. (2002). *The measure of man and woman: Human factors in design*. New York: Wiley.
7. Arnheim, R. (2015). *Visual thinking*. Berkeley : University of California Press.
8. Tait, J. (2018). *The architecture concept book*. London : Thames & Hudson.
9. Karszen, A., & Otte, B. (2014). *Model making: Conceive, create and convince*. Amsterdam: Frame Publishers.
10. Brownell, B. E. (2017). *Transmaterial next: A catalog of materials that will redefine our future*. New York : Princeton Architectural Press.
11. Adrover, E. R. (2015). *Deployable structures*. London: Laurence King Publishing.
12. Neufert, E., Neufert, P., & Kister, J. (2012). *Neufert*. Oxford: Wiley-Blackwell.
13. Ching, F. D. K., & Eckler, J. F. (2013). *Introduction to architecture*. Hoboken: Wiley.
14. Pause, M., & Clark, R. H. (2013). *Precedents in architecture: Analytic diagrams, formative ideas, and partis*. Hoboken, N.J: Wiley.
15. Ching, F. D. K. (2007). *Architecture--form, space, and order*.
16. Jones, W. (2011). *Architects' sketchbooks*. London: Thames & Hudson.
17. Pandya, Y., & Vastu-Shilpa Foundation for Studies and Research in Environmental Design. (2003). *Elements of space making*. Ahmedabad: Vastu-Shilpa Foundation for Studies and Research in Environmental Design.
18. Unwin, S. (2010). *Twenty buildings every architect should understand*. London: Routledge