



**Lok Jagruti Kendra University**  
University with a Difference

# **Diploma in Architectural Assistantship**



**Course Code:025080101**  
**Design Studio 1**

| Programme / Branch Name |                 | Diploma in Architectural Assistantship |     |     |             |           |
|-------------------------|-----------------|--|-----|-----|-------------|-----------|
| Course Name             | Design Studio 1 |  |     |     | Course Code | 025080101 |
| Course Type             | HSSC            | BSC                                    | ESC | PCC | OEC         | PEC       |

**Legends:** HSSC: Humanities and Social Sciences Courses BSC: Basic Science Courses  
ESC: Engineering Science Courses PCC: Program Core Courses  
OEC: Open Elective Courses PEC: Program Elective Courses

## 1. Teaching and Evaluation Scheme

| Teaching Hours / Week / Credits |   |   |              | Evaluation Scheme |          |          |       |
|---------------------------------|---|---|--------------|-------------------|----------|----------|-------|
| L                               | T | P | Total Credit | CCE               | SEE (Th) | SEE (Pr) | TOTAL |
| 0                               | 0 | 8 | 4            | 100               | -        | 100      | 200   |

**Legends:**  
L: Lectures T: Tutorial P: Practical  
CCE: Continuous & Comprehensive Evaluation  
SEE (Th): Semester End Evaluation (Theory)  
SEE (Pr): Semester End Evaluation (Practical)

## 2. Prerequisites

- ✓ Introduction of basic fundamentals of design and design vocabulary
- ✓ Translate abstract principles of design into an architectural language
- ✓ Apply basic design principles to create architectural space and form
- ✓ Recognize the importance of anthropometry in the creation of functional space

## 3. Rationale

This subject Design Studio 1 is the core course of the program. The course will introduce students to design fundamentals for function and aesthetics. This course introduces students to different building components and their measurements. Also, it helps the students to develop skills to draw plans, elevations, and sections of both buildings as well as the layout of the furniture inside, using an appropriate scale. These prepare students for various drawings involved in architectural design subjects of later semesters of the program such as presentation drawings, working drawings, etc.

## 4. Objectives

- ✓ To introduce students to the language of architecture and the characteristics of space through creative thinking
- ✓ Introduction of fundamentals of design and design vocabulary concerning function and aesthetics.
- ✓ Developing the basic skill of expression that involves the ability to perceive, abstract, and create the design of objects and spaces.
- ✓ Form and space making, experiencing movement through space and time, anthropometry and space.



## 5. Contents

| Unit No. | Unit Name   | Topics  | Learning Outcomes   | % Weightage | Hours |
|----------|---|---|---|-------------|-------|
| 1.       | Introduction                                      | 1.1. Importance of Design Studio 1<br>1.2. The Term 'Architect'<br>1.3. Instruments to be Use for Drawings.<br>1.4. Typical Wall Section from Foundation to Parapet Level<br>1.5. Levels and Technical Terms of the Drawings<br>1.6. Different Building Materials | <ul style="list-style-type: none"> <li>Draw a Typical Wall Section</li> <li>Collect Data from The Market for Different Building Materials</li> <li>Conduct Market Survey and Site Visits</li> </ul> | 20          | 22    |
| 2.       | Case Study  | 2.1. Introduction of a Case Study<br>2.2. Collection of Data and Drawings of a Residential Building<br>2.3. Site Analysis<br>2.4. Bubble Diagram and Connectivity Chart   | <ul style="list-style-type: none"> <li>Prepare a Case Study Report of a Small Unit of a Public Building</li> </ul>  | 20          | 22    |
| 3.       | Measured Drawings of a Given Residential Building | 3.1. Unit Plan of a Given Residential Building<br>3.2. Elevations of a Given Residential Building<br>3.3. Section of a Given Residential Building   | <ul style="list-style-type: none"> <li>Prepare Measured Drawings of a Small Unit of a Proposed Building</li> </ul>  | 30          | 28    |
| 4.       | Presentation Drawings                             | 4.1. Preparation of Architectural Drawings With All Relevant Terms<br>4.2. Development of Sketches<br>4.3. Preparation of a Site Model in Relevant Scale and Proportion   | <ul style="list-style-type: none"> <li>Prepare Presentation Drawings of a Small Unit of a Proposed Building with Furniture and Rendering.</li> </ul>  | 30          | 40    |

**Total Hours 112**



## 6. List of Practicals / Exercises

The practicals/exercises have been properly designed and implemented in an attempt to develop different types of skills, so that students can acquire the competencies/programme outcomes. Following is the list of practicals/exercises.

| Sr. No.            | Practicals / Exercises  | Key Competency                     | Hours      |
|--------------------|---|------------------------------------|------------|
| 1.                 | Case study of the given project.  | Aware of the professional drawings | 4          |
| 2.                 | Collecting Data of the Case study's building (Single Volume)  | Drawings relevant to the site      | 8          |
| 3.                 | Prepare Presentation of the received or basic set of case study drawings                            | Drafting Presentation drawings     | 8          |
| 4.                 | Site Analysis and site requirements   | Site study and requirements        | 6          |
| 5.                 | Conceptual Sketches and their presentation  | Concept drawings                   | 8          |
| 6.                 | Site plan   | Site development                   | 10         |
| 7.                 | Preparation of floor plans (Single volume)  | Presentation plans                 | 10         |
| 8.                 | Preparation of all sides of building Elevations   | Presentation Elevations            | 8          |
| 9.                 | Preparation of building Sections  | Presentation Sections              | 8          |
| 10.                | Preparing sketches of the designed building   | Proper Sketches                    | 8          |
| 11.                | Prepare 3d views (orthographic/ Isometric) of the designed projects                                 | 3d views                           | 8          |
| 12.                | The final presentation of the further prepared drawings (plans, sections, elevations, and 3d views) | Final Presentation                 | 8          |
| 13.                | Prepare a model of a suitable scale   | 3d model in Appropriate scale      | 8          |
| 14.                | Project- preparation of drawings by application of subjects taught in this semester                 | The material study, Context study  | 10         |
| <b>Total Hours</b> |   |                                    | <b>112</b> |

## 7. Reference Books

- 1) Architecture – Form, Space & Order by Francis D.K.Ching John Wiley & Sons
- 2) Visual Dictionary of Architecture by Francis D.K.Ching John Wiley & Sons
- 3) Neufert Data Standards Ernst Neufert by Archon Books
- 4) Building Drawing Shah, Kale, Patki Tata Mcgraw Hill Publishing
- 5) Architecture + Design Journal/Magazine by Media Transasia Group
- 6) Inside Outside Journal/Magazine by Business India Group

## 8. Open Sources (Website, Video, Movie)

- 1) [https://www.designingbuildings.co.uk/wiki/Single-storey\\_building\\_definition](https://www.designingbuildings.co.uk/wiki/Single-storey_building_definition)
- 2) <https://www.archdaily.com/search/projects/categories/office-buildings/country/india>
- 3) [https://www.archdaily.com/945449/the-yellow-box-office-traanspace?ad\\_source=search&ad\\_medium=search\\_result\\_projects](https://www.archdaily.com/945449/the-yellow-box-office-traanspace?ad_source=search&ad_medium=search_result_projects)
- 4) <https://www.middleeastarchitect.com/portfolio/10-contemporary-structures-across-india-that-celebrate-the-countrys-various-identities>
- 5) [https://www.indian-architects.com/en/projects?building\\_type\\_id=24](https://www.indian-architects.com/en/projects?building_type_id=24)

