Lok Jagruti Kendra University
University with a Difference

Diploma in Architectural Assistantship

LJ Polytechnic

Course Code:025080201

Design Studio 2

Programme / / Branch Name			Diploma in Architectural Assistantship			
Course Name	Design Studio 2				**Course Code**	025080201
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	12	6	100	-	200	300

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

- ✓ Understanding of plans, elevations and sections
- ✓ Drafting skills with proper line intensity

3. Rationale

This is a primary course about learning and applying the fundamentals of design. The process of learning to design a single volume building allows a student to express his ability to conceive different types of forms. It facilitates the student to understand and apply the nuances of anthropometry by making a model with a furniture layout.

4. Objectives

- ✓ The course will introduce students to develop a sense of scale based on the human body, concepts of human presence, size, scale, proportions and their relationships.
- ✓ The course will introduce students to the design fundaments with respect to function and aesthetics.
- ✓ The course will introduce students to the basic properties and application of building material and its ability to create architectural space and form of a certain ambiance and scale.

5. Contents

Unit No.	Unit Name	Topics	Learning Outcomes	% Weightage	Hours
1.	**Introduction**	1.1. Importance of Design Studio 2 1.2. Levels and Technical Terms of the Drawings 1.3. Various Building Elements	• Study an Existing Single-Volume Building • Identify Problems, Functional Usability and Architectural Innovations in Real-life Situations • Analyze the Form, Functional Clarity, Furniture Layout and Design Innovations of the Studied Architectural Drawings of the Buildings • Formulate Design Requirements for the Given Design Project	20	36
2.	**Case Study**	2.1. Introduction of a Case Study 2.2. Collection of Data and Drawings of a Commercial Building 2.3. Site Analysis 2.4. Bubble Diagram and Connectivity Chart	• Sketch Design Alternatives and Ideas Considering Various Design Fundamentals • Finalize the Concept for the Further Design Development • Prepare a Functional Relationship Diagram	30	44
3.	**Measured Drawings of a given Coommercial Building**	3.1. Unit Plan of a Given Commercial Building 3.2. Elevations of a Given Commercial Building 3.3. Section of a Given Commercial Building	• Provide Specific Site Location with Reference to the Surrounding Conditions, Topography, Landscape, Climate, etc..	20	32
4.	**Presentation Drawings**	4.1. Preparation of Architectural Drawings With All Relevant Terms 4.2. Development of Sketches 4.3. Preparation of a Site Model in Relevant Scale and Proportion	• Develop the Sketch at an Appropriate Scale as per Anthropometric Requirements & Show the Furniture Layout • Develop the Sketch showing Façade Treatment and Massing	30	56

			• Visualize and Draw the Building to Scale in 3D		
				Total Hours	**168**

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.	Awareness of the professional drawings	6
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	12
4.	Site analysis and site requirements	Site study and requirements	10
5.	Conceptual sketches and their presentation	Concept drawings	14
6.	Site plan	Site development	12
7.	Preparation of floor plans (single volume)	Presentation plans	22
8.	Preparation of all sides of building elevations	Presentation elevations	14
9.	Preparation of building sections	Presentation sections	14
10.	Preparing sketches of the designed building	Proper sketches	10
11.	Prepare 3d views (orthographic/ isometric) of the designed projects	3d views	12
12.	The final presentation of the further prepared drawings (plans, sections, elevations, and 3d views)	Final presentation	12
13.	Prepare a model of a suitable scale	3d model in appropriate scale	10
14.	Project preparation of drawings by application of subjects taught in this semester	The material study, context study	12
		Total Hours	**168**

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
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
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