



Lok Jagruti Kendra University
University with a Difference

Diploma in Architectural Assistantship



Course Code:025080506

Form Space & Order

Programme / Branch Name		Diploma in Architectural Assistantship				
Course Name	Form Space & Order				Course Code	025080506
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	4	2	50	-	50	100

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

- ✓ Basic understating of model making and tools.

3. Rationale

Understanding of form, space, scale, proportion, stability and joinery of structure details will be developed. All these vital skills are either possessed or may be acquired after training along with practice which is essential in the study of architecture.

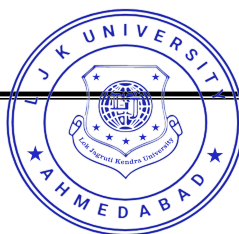
4. Objectives

- ✓ To equip students with the basic skills necessary to represent their ideas in simple models format using different types of materials.
- ✓ To make students practice with various tools essential for making architectural models and miniatures of structures.

5. Contents

Unit No.	Unit Name	Topics	Learning Outcomes	% Weightage	Hours
1	Development of Surfaces	1.1. Importance of form space & order 1.2. Methods of surface development by parallel-line, axial -line, triangulation methods, proximate methods, development of lateral surfaces of right solids, viz. Cubes, prisms, cylinders, pyramids, cones. Development of transition pieces, for spheres, etc.	<ul style="list-style-type: none"> Development of surface with different types of methods and materials 	30	14
2	Scale Modelling	2.1. Use of different scales; templates; measuring aids; conventions followed.	<ul style="list-style-type: none"> Understating of scale. 	10	6
3	Use of Advanced Tools and Materials	3.1. Use of materials, viz. acrylic, polystyrene (thermocool), softwood, plastics, glass fibre, metals in architectural models 3.2. Painting model surfaces with various finishes, development of topography and landscape elements, use of materials like cork, polyurethane foam, use of laser, acid etching, Stereo lithography for the development of building envelopes.	<ul style="list-style-type: none"> Use of advanced tools and materials 	40	26
4	Presentation Modelling	4.1. Skills to use the tools with precision, techniques for preparation of presentation models. General information and practice with different finishing material.	<ul style="list-style-type: none"> Presentation of models 	20	10

Total Hours **56**



6. List of Practical / Exercise

Sr. No	Practical / Exercises	Key Competency	Hours
1	Developments of surface of model with different materials	Surface development	14
2	Developments of different types of miniature models of structures (like dome, truss, towers, bridge, etc.) With help of different types of materials, tools and methods	Miniature of structures	32
3	Presentation of miniature models	How to do presentation of structure model	10

7. Reference Books

- 1) Bhatt, N. D. (2003). Engineering Drawing. Anand: Charotar Publishing House.
- 2) Ching, F. D. K. (2009). Architectural Graphics. 5th Ed. Hoboken: John Wiley & Sons.
- 3) Criss, B. M. (2011). Designing with models: A Studio guide to Architectural Process Models. 3rd Ed. Hoboken: John Wiley & Sons.
- 4) Kieran, S. and Timberlake, J. (2008). Loblolly House: Elements of a New Architecture. New York: Princeton Architectural Press. Morgan, C. L. and Nouvel, J. (1998). The Elements of Architecture. London: Thames and Hudson.
- 5) Werner, M. (2011). Model Making. New York: Princeton Architectural Press.

8. Open Sources (Website, Video, Movie)

- 1) <https://www.youtube.com/watch?v=3DYI8sy-7jg>
- 2) <https://www.youtube.com/watch?v=BTUxxv1RJIY>
- 3) <https://www.youtube.com/watch?v=OS1vDGFikMY>

