



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

# **Diploma in Architectural Assistantship**



**Course Code:025080506**  
**Form Space & Order**

<b>Programme / Branch Name</b>		Diploma in Architectural Assistantship			
<b>Course Name</b>	Form Space & Order			<b>Course Code</b>	025080506
<b>Course Type</b>	HSSC	BSC	ESC	PCC	OEC PEC

**Legends:** HSSC: Humanities and Social Sciences Courses  
 ESC: Engineering Science Courses  
 OEC: Open Elective Courses

BSC: Basic Science Courses  
 PCC: Program Core 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

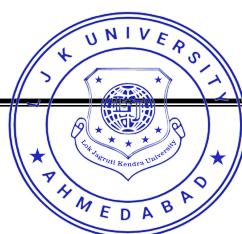
- ✓ Basic understanding of model making and tools.

## 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	<b>Development of Surfaces</b>	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.	• Development of surface with different types of methods and materials	30	14
2	<b>Scale Modelling</b>	2.1. Use of different scales; templates; measuring aids; conventions followed.	• Understating of scale.	10	6
3	<b>Use of Advanced Tools and Materials</b>	3.1. Use of materials, viz. acrylic, polystyrene (thermocol), 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.	• Use of advanced tools and materials	40	26
4	<b>Presentation Modelling</b>	4.1. Skills to use the tools with precision, techniques for preparation of presentation models. General information and practice with different finishing material.	• 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.3<sup>rd</sup> 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>

