

GUJARAT TECHNOLOGICAL UNIVERSITY

Diploma in Architectural Assistantship

Semester: 3

Subject Code

Subject Name ARCHITECTURAL DRAWING- III

Sr. No.	Course content
1.	PROJECTION OF SOLIDS : 1.1 Describe different types of solids like cube, prism, pyramids, cone and cylinder. 1.2 Define the terms apex, axis, slant edge, meaning and identification of the true length of the base side, true length of the slant edge. True shape of Triangular face of pyramids. 1.3 Description of various position of solids relative to the reference planes, projections of solids: 1.3.1 Standing Position 1.3.2 Inclined to one plane only.
2.	SECTIONS OF SOLIDS: 2.1 UNDERSTAND THE TECHNOLOGY AND METHODS OF PROJECTIONS OF SECTIONS OF SOLIDS: 2.2 Description of cutting planes, auxiliary planes, true shape, full section, half section and section lining. 2.3 Procedure for drawing the projection of sectioned solid (cube, prism, pyramid, cone and cylinder) for the given position of the cutting plane
3.	DEVELOPMENT OF SURFACES : Procedure for drawing the development of simple and truncated geometrical solids (cube, prisms, pyramids, cylinder and cone).
4.	ARCHITECTURAL RENDERING TECHNIQUES : 4.1 Understand rendering techniques for architectural presentation drawings 4.2 Prepare presentation drawings (Rendering of Plans, Sections & Elevations) of the design project for the DESIGN SUBJECT
5.	PERSPECTIVE : 5.1 KNOW THE THEORY OF PERSPECTIVE DRAWING 5.1.1 Station point 5.1.2 Vanishing point 5.1.3 Eye level 5.1.4 Ground level 5.1.5 Central visual ray. 5.2 PERSPECTIVE DRAWING 5.2.1 ONE POINT PERSPECTIVE:

	<p>5.2.2 TWO POINT PERSPECTIVE</p> <p>a) Simple objects placed in relation with picture plane and station point like:</p> <ul style="list-style-type: none"> i) Object touching the picture plane ii) Object in front of picture plane iii) Object behind picture plane <p>b) Simple object keeping eye level at different levels:</p> <ul style="list-style-type: none"> i) eye level above object ii) eye level less than the given object.
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TERM WORK:

1. 2 Nos. of sheets on Projection of all the solids in simple position (6 Problems)
2. 2 Nos. of sheets 6 Nos. of problems on solids in inclined positions.
3. 4 Nos. of sheets on sections of solids each sheet containing minimum 2 Nos. problems.
4. 4 Nos. of sheets on Development of surfaces containing Two problems each.
5. 4 Nos. of sheets, for Architectural Presentation Drawings
6. 4 Nos. of sheets, pertaining to one point perspective one problem in each sheet.
7. 4 Nos. of sheets pertaining to two point perspective one problem in each sheet

Reference Books:

- 1) Engineering Drawing - N.D.Bhatt
- 2) Engineering Drawing - S.C.Sharma
- 3) Engineering Drawing - C.L. Varma
- 4) Perspective for the Architects - Thames and Hudson
- 5) Applied Perspective - John Helper
- 6) Professional perspective drawing or Architects and Engineers
- 7) Architectural Drawing and Light Construction - Edward J. Muller.