



AMITY UNIVERSITY

— UTTAR PRADESH —

Course Title: Architectural Graphics – I

Course Code: ARCH145

Credit Units: 2

Level: UG

L	T	P/S	SW/F W	TOTAL CREDIT UNITS
-	-	4	-	2

Course Title:--		Weightage (%)
ARCHITECTURAL GRAPHICS – I		
1	Course Objectives: <ul style="list-style-type: none"> To familiarize the students with various drawing tools and accessories used in drafting and lettering techniques to produce any geometrical composition and form. To provide a clear understanding about the scale measurement; plane geometry, solid geometry and projections used as drawing technique. To analyze and solve basic problems involving graphics and spatial manipulations for architectural applications to represent forms. 	
2	Prerequisites: NIL	
3	Student Learning Outcomes: Ability to use appropriate drawing technique and representation to convey essential formal elements at each stage of the programming and design process	
Course Contents :		
4	Module I: Basic technical Drawing, Lettering and Presentation	15
Introduction to basics- introduction to subject and drawing equipments, Drafting and quality of lines with pencil. Basic Geometry- Construction of planes, curves, circles tangent and regular polygons.		

	Free hand and mechanical lettering- Free hand drawing and lettering for titles, line work with the use of Drawing Instruments Presentation – Black & white, Colour Basic textures, templates (furniture, objects, landscape), Plan elements – door, window, wall, overhead, etc.																															
5	Module II: Scale and dimensioning Types and uses of scales: Plain, diagonal, comparative, and scale of chords, Scales used in architecture, Reducing and enlarging scales, Representative fraction, Dimensioning of lines and plane figures, Measuring and drawing to scale the following: furniture pieces, rooms, doors and windows, etc.	25																														
6	Module III: Orthographic Projections: Introduction to orthographic projections - isometric and axonometric projections, Planes of Projections, First angle projections, Drawing of lines, basic geometrical shapes in different positions, Projection of regular rectilinear and circular solids (prisms, pyramids, cones, cylinders, spheres etc.) in different positions, construction of plan, elevation and section of 3D objects and projections in various positions.	30																														
7	Module IV: Surface Development: Surface development of solids and sectional solids- Study of development of surfaces, drawing of unfolded surfaces of right solids like Cubes, Prisms, Cylinders; drawing the development of the lateral surface of a pyramid & Cone	30																														
9	Pedagogy for Course Delivery:																															
10	<p>Assessment/ Examination Scheme:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 25%;">Theory (%)</th> <th colspan="4" style="width: 50%;">Lab/Practical/Studio (%)</th> <th style="width: 25%;">Total</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">NIL</td> <td colspan="4" style="text-align: center;">100</td> <td style="text-align: center;">100%</td> </tr> <tr> <td colspan="6" style="text-align: center;">Lab/Practical/Studio Assessment</td> </tr> <tr> <th style="width: 25%;">Components (Drop down)</th> <th style="width: 12.5%;">A</th> <th style="width: 12.5%;">CT</th> <th style="width: 12.5%;">P</th> <th style="width: 12.5%;">S</th> <th style="width: 12.5%;">VV</th> </tr> <tr> <td>Weightage (%)</td> <td style="text-align: center;">05</td> <td style="text-align: center;">15</td> <td style="text-align: center;">10</td> <td style="text-align: center;">20</td> <td style="text-align: center;">50</td> </tr> </tbody> </table> <p>A – Attendance, CT – Class Test (Practical based), P – Portfolio, S – Studio Work, VV – Viva Voice</p>	Theory (%)	Lab/Practical/Studio (%)				Total	NIL	100				100%	Lab/Practical/Studio Assessment						Components (Drop down)	A	CT	P	S	VV	Weightage (%)	05	15	10	20	50	
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Text:

- Boaz Joseph , Architectural Graphic standards editor

- Bhatt, N.D., “Engineering Drawing: Plane and Solid Geometry”, Charotar Publishing House, 2006
- Ching, Francis D. K., “Architectural Graphics”, Van Nostrand Reinhold, 2003.

References:

- Leslie, Martin C., “Architectural Graphics”, Macmillan Pub Co, 1970.
- Parkinson, A.C., “A First Year Engg. Drawing”, Sir Issac Pitman and Sons.