AR-121 ARCHITECTURAL DRAWING AND GRAPHICS – II::C-16

Subject Title	**:Architectural Drawing and Graphics - II**
Subject Code	**:AA-121**
Periods / Week	**:04**
Periods / Semester	**:72**
Credits	**:04**
Internal Assignments & Mids	**:50 Marks**
External Examinations	**:50 Marks**
Total Marks	**:100 Marks**
Duration of Exam	**:3 Hrs (University Exam, Drawing & Theory)**

TIME SCHEDULE

S. No	Major Topics	No. of periods	Weightage of marks	No of short ans. questions	No of essay ans. questions
1.	Unit_I (Orthographic Projection)	8	10	-	1
2.	Unit-II (Isometric, Axonometric, Oblique views).	12	15	1	1
3.	Unit-III (Mouldings and Arches)	8	5	1	-
4.	Unit-IV (Ionic Volute)	2	10	-	1
5.	Unit-V (Entasis of Column)	2	5	1	-
6.	Unit-VI (Architectural Documentation , Plan, Sections & Elevations)	16	15	1	1
7.	Unit-VII (Perspectives - One Point and Two point)	24	10	-	1
	Total:	**72**	**70**	**4**	**5**

Note: 1. Duration of examination is for 3 hours
2. Part A: 4 questions – each question carries 5 marks all 4 to answer and no choice
3. Part B: 3 questions have to be answered out of 5 questions 2 are choive
each question carries 10 marks

Course Overview:
The course is intended to develop the techniques of architectural drawing pertaining simple and complex solid geometrical forms of Building geometry Documentation.

Objectives of the Course:
To impart the skills of three dimensional visualization and presentation.

Course Contents:

Unit – I

Building Geometry: Study of points, lines, and planes leading to simple and complex solid geometrical forms; Orthographic Projections-Representation of 3D elements in Plan and Elevations, use of circle in mouldings- Ovolo Covetta, Ogee, Lancet,Horse shoe, Moorish, Stilted and Rampant, Tudor,three centered and drop. Exercises on Ionic volute, Entasis of column etc., working with models to facilitate visualization.

Unit –II

Architectural Documentation:

Detailed measured drawing and documentation of any interesting building – preparation of maps, plans, elevations, sections, views etc.

Unit-III

Perspectives:

Characteristics of perspective drawings: perspectives of simple geometric solids and spaces and complex geometries. Advanced examples in one point or parallel perspective, two point or angular perspective, introduction to three point perspective.

Reference books:

- **Thomas, E. French.** Graphic Science and Design, New York: MC Graw Hill.
- **Nichols, T.B. and Keep, Norman.** Geometry of Construction, 3rd ed. Cleaver – Hume Press Ltd., London, 1959.
- **Bhatt, N.D. and Panchal V.M.** Engineering Drawing: Plane and Solid Geometry, 42nd ed. Charotar Pub., Anand, 2000.
- **Gill, P.S. T.B.** of Geometrical Drawing, 3rd ed. Dewan Suhil Kumar Kataria, Ludhiana, 1986.
- **Shah, M.G., Kale, C.M. and Patki, S.Y.** Building Drawing: with an integrated approach to built environment, 7th ed. Tata McGraw Hill Pub., Delhi, 2000.
- Claude Batley -Design Development of Indian Architecture
- Ernest Burden -Architectural Delineation