

GUJARAT TECHNOLOGICAL UNIVERSITY

Diploma in Architectural Assistantship

Semester: I

Subject Name: **Building Drawing**

Subject Code: **310043**

Teaching Scheme				Evaluation Scheme		
Theory	Tutorial	Practical	Total	University Exam (Theory) (E)	Mid Sem Exam (Theory) (M)	Internal Assessment (I)
0	0	6	3	0	0	100

Rationale:

This course introduces students to different building components and their measurements. This course helps the students to develop skills to draw plans, elevations and sections of both buildings and the furniture inside. It also helps students to develop a skill to draw using different scales. This course, in short prepares students for presentation drawings/working drawing etc. involved in architectural design subject.

Topic No.	Name of Topic	No. of Hours		
		Lect.	Pract.	Total
1	a) Typical wall section from parapet to foundation which shows all levels and technical terms.	–	10	10
	b) Typical column section from slab & beam to foundation which shows all levels & technical.	–	10	10
	c) Plan, Elevation & Section of a single room e.g. watchman's cabin, Milk both etc.	–	10	10
2	Measured Drawing of small unit of public building e.g. Classroom, Library, Hall etc in 1:100 scale including plans, elevations & sections.	–	32	32
3	Plans, Elevations & Sections of a small residential building with at least one section, each form staircase	–	22	22

	and toilets, showing all dimensions in 1:50 scale.			
				84

T.R.S. & EO's

T.R.S.

- 1.1 Trace building drawing using pencil & ink.

EO's

- 1.1.1 Manu plate various drafting instruments.
- 1.1.2 Use different drawing materials.
- 1.1.3 Fix the drawing sheet, tracing paper & prepare drawings sheets properly on drawing board.
- 1.1.4 Dimension, re-draw and alter the original drawing.

T.R.S.

- 2.1 Measure existing small building and prepare drawings

EO's

- 2.1.1 Prepare the sketch of the existing building.
- 2.1.2 Measure and enter all dimension of each component of the building properly
- 2.1.3 Proper the drawing to the proper scale.
- 2.1.4 Prepare the schedule for opening.
- 2.1.5 Draw the lay-out of existing furniture.

THEORY

Sr. No.	Course Content:
1.	Topic-1 IDENTIFICATION OF BUILDING COMPONENTS: Identification of Building Components inclusive of all Technical Terms involved.
2.	Topic-2 MEASUREMENT OF BUILDING COMPONENTS: Explanation about how to take measurements of building components
3.	Topic-3 INTRODUCTION OF PLAN, ELE. & SECTIONS: Explanation about how to draw elevations, plans, sections, etc. Also methods of writing measurements (Dimensions).

4.	Topic-4 MEASURED DRAWING -- 2 OR 3 ROOMS UNIT WITH EXISTING FURNITURE LAYOUT. Measured Drawing of part of a building (e.g. A Public Building) with all existing components such as Staircase, Toilet Block Canopy, Entrance Door, Doors & Windows, Cabins, Rooms, etc. Plans, Elevations & Sections of a given residential building preferably single-storied complete with staircase and with a water-tank (overhead) and stair cabin.
5.	Topic-5 ENLARGEMENT OF BUILDING COMPONENTS IN LARGE SCALE WITH NECESSARY DETAILS AND DIMENSIONS E.G. KITCHEN, STAIRCASE, DOORS & WINDOWS, TOILETS ETC.

Term Work:

1.
 - a) Typical wall section from parapet to foundation, which shows all levels and technical terms
 - b) Typical column section from slab & beam to foundation, which shows all levels & technical Terms.
 - c) Plan, Elevation & Section of a single room e.g. Watchman's Cabin, Milk Booth etc.
2. Measured Drawing of small unit of Public Building e.g. Class Room Library, Hall etc. in 1:100 scale including plans, elevations & Sections.
3. Plans, Elevations & Sections of a small residential building with at least one section each from staircase and Toilet/s, showing all dimensions in 1:50 scale.
4. Enlarged working detail drawings of Minimum two of the following:
 - a) Kitchen with platform
 - b) Staircase with cabin
 - c) Toilets
 - d) Doors & windows
 - e) Store room with stone shelves.

Reference Books:

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| 1. BUILDING DRAWING: | -- By Shah, Kale and Patki |
| 2. BUILDING CONSTRUCTION | -- By Mc Kay |
| 3. BUILDING CONSTRUCTION | -- By Barry. |
| 4. BUILDING DRAWING | -- By Y.S.Sane. |
| 5. CIVIL ENGG. DRAWING | -- By Mallik & Meo |