

GUJARAT TECHNOLOGICAL UNIVERSITY

Diploma in Architectural Assistantship

Semester: II

Subject Name: **Architectural Design - I**

Subject Code: **320060**

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

Rationale:

Architectural design is the core course of the programme. Student has to learn about application of many other courses. It enables the student to put dream into reality in the field of Architectural work. It is therefore, interesting to students. Design of single volume building allows a student to express his ability to conceive different types of develop. it from and ultimately make its working model showing how its inner volume is used, with the help of furniture layout.

Topic No.	Name of Topic	No. of Hours		
		Lect.	Pract.	Total
1.	Design any one single volume building.			
	Data collection	—	06	06
	Development of concept.	—	10	10
	Preparing sketch design.	—	16	16
	Preparing plans.	—	12	12
	Preparing elevations	—	04	04
	Preparing sections.	—	02	02
	Preparing site plan.	—	02	02
	Preparing final drawings with presentation	—	16	16
2.	Preparation of model	—	16	16

	Total	—	84
--	--------------	---	----

T.R.S. & EO's

- 1.1 Design a single volume building for given requirements and prepare presentation drawings

EO's

- 1.1.1 Collect data related to the given building, select case study and appraise them.
- 1.1.2 Prepare & select a better conceptual drawings for the given building.
- 1.1.3 Prepare sketch design for the given building.
- 1.1.4 Prepare presentation drawings with architectural rendering for the given building.
- 1.1.5 Make a model of the designed building.
- 1.1.6 Justify the designed building

T.R.S

- 2.1 Prepare presentation drawings for the given project of design.

EO's

- 2.2.1 Use scale, symbols & abbreviations as per IS : 962
- 2.2.2 Draw plan of the given building.
- 2.2.3 Draw elevations of the given building.
- 2.2.4 Draw sections of the given building.
- 2.2.5 Draw site plan in given scale.
- 2.2.6 Draw different site conditions and landscape elements in the site plan.
- 2.2.7 Render the drawing in different media.
- 2.2.8 Prepare isometric, perspective of the given building.
- 2.2.9 Prepare furniture layout for the given building.
- 2.2.10 Render the furniture layout with different colour media.

THEORY

Sr. No.	Course Content:
1.	Topic-1 FORM : 1.1 FORM AS A PRIMARY TOOL OF A DESIGNER (DIFF. TYPES) 1.2 SHAPE: This is the principal identifying form as it results from the specific configuration of a form's surfaces and edges. 1.3 SIZE: The real dimensions of forms i.e. length, width & depth which determine the proportions of a form.

2.	Topic- 2 FUNCTION: 2.1 FUNCTION AS THE PRECONDITION OF THE DESIGN 2.2 State the requirements and their relation to function 2.3 Derive the form keeping in mind the functional requirements
3.	Topic-3 FURNITURE LAYOUT: 3.1 DESIGN OF FURNITURE LAYOUT 3.2 Decide the various dimensions e.g. height, length & width of furniture as per anthropometrics requirement. 3.3 Lay the furniture in the designed structure as per requirements.
4.	Topic-4 DESIGN PROCESS: 4.1 UNDERSTAND THE DESIGN PROCESS. 4.2 Prepare and derive different types of forms for given specific volume. 4.3 Decide the various dimensions of the same in relation to functional requirements. 4.4 Lay the interior e.g. furniture, partitions etc. as per requirements.

Term Work:

Term work shall consist of drawings of a Single volume building e.g. OCTROI POST, BUS STAND, WATER HUT, WATCHMAN'S CABIN, MILK BAR, REFRESHMENT KIOSKS, PUBLIC TOILETS TELEPHONE BOOTH, PETROL PUMP ETC. (ANY ONE DESIGN) The students shall prepare the following drawings:-

- Necessary Plans, elevations and sections with proper architectural rendering.
- One model is compulsory.

Term work shall consist one time problem of one week duration on any one of topics mentioned in term work

Students are required to be taken for relevant site visit

Reference Books:

- 1) Architecture for India - William Curtis (B.V.Doshi)
- 2) Charles Correa - William Curtis.