

GUJARAT TECHNOLOGICAL UNIVERSITY

BRANCH NAME: B. Arch
SUBJECT NAME: Architecture Design Studio - V
SUBJECT CODE: 2X55001
3rd Year, Semester: V

Prerequisite:

It is assumed that students have a conceptual clarity with the basics of design and principles of architecture design like user pattern, spatial planning, circulation pattern, building form, building materials and its resultant aesthetics, basic structural principles covered in Architecture Design studios – I to IV.

Rationale:

This course explores approaches to the institutional design process in terms of: Environmental Concerns, Energy Efficiency, Client Contact, Active – Passive User group, Integration of space, structure-materials-construction-services, Part-Whole relationships character.

Teaching and Assessment Scheme:

Teaching Scheme			Credits C	Examination Marks				Total Marks	University Exam Type
Field work	Lectures	Studio		External exam		Internal exam			
			(ESE)Theory	(ESE) Viva	(PA)Theory	(PA)Viva			
4	2	8	14	NA	40	NA	60	100	JURY

Content:

Sr. No.	Content	Total Hours*	% Weightage*
1	Understanding the character of institutional architecture in terms of scale, proportion, hierarchy of spaces, circulation, building language etc	28	25%
2	Idea of an Institutional image/character Ordering Theme / Idea / Concept	28	
3	Diversity of user groups, User group needs and client requirements	14	15%
4	Influence of culture	14	
5	Organization and disposition of spaces	28	25%
6	Relationship of different functional, service and movement areas, circulation routes	28	
7	Climatic considerations	14	
8	Building material selection and technology	28	25%
9	Structural aspects	14	
10	Site planning/layout/zoning/circulation, Landscaping	28	

*: indicative

References:

- Design Strategies in Architecture, Edited by Geoffrey Baker
- Responsive Environment, Cutler & Cutler
- A Pattern Language by Christopher Alexander
- Scale in Architecture, Frank Orr
- Lateral thinking by De Bono, Edward
- Architecture: Scale and Proportion by Ruskin, Eugene
- Space, Time and Architecture, S. Giedion
- Analysis of Form, Le Corbusier & Baker

Course Outcome:

Sr. No.	CO Statement	Marks % Weightage
Upon completion of this course, the students should be able to:		
1	Analyze user groups, User group needs and client requirements as well as influence of culture by suitable case studies and primary surveys	10%
2	Select from various design methods or philosophies the appropriate design methodology best suited for the program, site and user group by analytical approach and understand the relevance of parallel methods.	10%
3	Evaluate the character of institutional architecture in terms of scale, proportion, hierarchy of spaces, circulation, building language etc by various layouts, model making exercises and flow diagrams – necessary for the design process.	20%
4	Identify suitable Building materials, technology, structural system, building services and plan them accordingly	20%
5	Propose design of a mid-sized institutional building along with landscaping in totality. Prepare a complete set of drawings and models necessary to read the design comprehensively along with necessary construction details.	40%

List of Projects/Assignments*:

Lectures/Tutorial work shall consist of presentations on various master architects' institutional work, discussion of design philosophies, program brief, site analysis, climatic aspects, building technology, structural and service related aspects. Studio project can be any mid-sized institutional project (minimum 500Sqmt floor space) of low complexity program for better comprehension by students.

*- this is suggestive for common purpose. Studio faculty may decide on this considering student group, studio requirements and institutional philosophy.