

GUJARAT TECHNOLOGICAL UNIVERSITY
BRANCH NAME: B. Arch.
SUBJECT NAME: Architecture Design Studio – III
SUBJECT CODE: 2X35001
2nd Year, Semester: III

Prerequisite:

Student should have completed Design Studio – I & II taught in semester I & II.

Rationale:

- Climatic conditions and building material selection and application as one of determinants of design and the resultant form
- Understanding of **climate and the application of climate responsive solutions with special emphasis on the application of building materials** and their ability to create an architectural space or form of a certain character and scale

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		
2	2	6	10	NA	40	NA	60	100	JURY

Content:

Sr. No.	Content	Total Hours*	% Weightage*
1	Unit I: Related Study Program-III (3-5 days long related study program) <ul style="list-style-type: none"> - Selection of RSP site should strictly follow the studio objective. - Exploration of indigenous building materials, their application and the resultant form and scale (by observation) - Building appraisal through direct participation - Documentation and recording of observations 	40	20%
2	Unit II: Study of simple building systems using different conventional building materials, understanding the application of these systems and the criteria for their selection in different climatic situations.	30	20%
3	Unit III: Developing an understanding of climate responsive architecture through site analysis of existing situations and factors, and analyzing their appropriateness or lack thereof. Study of conditions or methods that can be used to improve environmental conditions.	30	20%
4	Unit IV: Design and development of a small project of low complexity with focus on the development of form and quality of spaces.	60	40%

*: indicative

Reference Books:

- National building Code of India (NBC)
- Form, Space and Order – Francis D.K. Ching
- A Pattern Language – Christopher Alexander
- Under the Banyans: Principles of sustainable habitats in the tropics – Auroville Consulting

List of Projects/Assignments*:

Lectures, Studios, Field trips, Study tour, documentation, recording, presentation, group discussion

Each design studio culminates with a design project of appropriate size and complexity for exercise of skills/knowledge gained during respective semester.

*- this is suggestive for common purpose.