

GUJARAT TECHNOLOGICAL UNIVERSITY

BRANCH NAME: B. Arch

SUBJECT NAME: Glass in Architecture

SUBJECT CODE: 1085009

4th Year: Semester-VIII

Pre requisite:

There is no prerequisite for taking this course. It is assumed that students, taking this course, are interested to explore the glass in architecture.

Rationale:

To understand gain knowledge on the building material Glass that has become increasingly popular in the recent times. This subject focuses upon knowing all about glass and its applications in Architecture.

Teaching and Assessment Scheme:

Teaching Scheme			Credits	Examination Marks				Total Marks	University Exam Type
Field work	Lectures	Studio	C	External Exam		Internal Exam		100	VIVA
1	2	1	04	(ESE) Theory	(ESE) Viva	(PA) Theory	(PA) Viva		
				00	50	00	50		

Content:

SR No	Content	Total Hours	Weight age
1	Introduction to glass and its Manufacturing theoretical and through factory visits.	20	30%
2	Brief introduction to types of Glass. A survey of glass available in the Indian market. (For instance, float glass, flat glass, toughen glass, high-performing glass, Low-e, colored glass)	20	30%
3	In continuation to market survey, understand the characteristics of the material. (understanding of the generic ideas and properties of above mentioned glass types such as Low-e, color changing, u-value, g-value)	12	20%
4	Applications – use of the various types of the glass and possible example of the buildings.	12	20%

*: indicative

References:

- Brochures by AIS Glass, Saint Gobain, ModiGaurd.
- Glass in Building, Principles, Applications, Examples, By Bernhard Weller, Stefan Unnewehr, Silke, Tasche, Kristina Härth · 2012
- Translucent Materials Glass, Plastics, Metals By Frank Kaltenbach · 2012

List of Projects/Assignments*:

Lectures/Tutorial work shall consist of presentations on various topics of the subject. AV projects may be introduced to students for documenting best practices and advances through case studies. A group discussion or forum may be organized for discussion on various aspects of the subject.

*- this is suggestive for common purpose. Faculty may decide on this, considering student group and institution philosophy