

# GUJARAT TECHNOLOGICAL UNIVERSITY

**BRANCH NAME: B. Arch.**

**SUBJECT NAME: Building Construction – II**

**SUBJECT CODE: 2X25003**

**1st Year, Semester: II**

## Prerequisite:

Students should have studied BC-I taught in semester-I

## Rationale:

Understanding different construction techniques for chosen materials, building elements and composite architecture

## 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		
1	2	3	06	40	NA	60	NA	100	DRAWING EXAM

## Content:

Sr. No.	Content	Total Hours*	% Weightage*
1	Unit I: Building Materials - Cement, Concrete - Metal (ferrous and non – ferrous - iron, steel, market forms of steel, application in buildings) - Glass - Timber boards - Tiles - Paints	30	30%
2	Unit-II: Building Construction - Foundations - Arches - Lintels & Weather Sheds - Timber Carpentry & Joinery - Doors & Windows - Staircases	66	70%

\*: indicative

## Reference Books:

- Construction of Building Vol.-I- R. Berry
- Building Construction Metric Vol.-II- W. B. McKay
- Construction Technology Vol.-I- Chudley
- Building Construction Illustrated- Francis D. K. Ching
- Engineering Materials – S.C. Rangwala (course book)
- Building Materials – B.C. Punamia (Additional Reference)
- Time Savers Standards – Building Materials and Systems – Donald Watson (Advanced Reference)

**List of Projects/Assignments\*:**

Lectures on basic construction of building, Studio exercises and case studies, Study of various components of existing building through sketches & models, Site visit.

\*- this is suggestive for common purpose.