

GUJARAT TECHNOLOGICAL UNIVERSITY

Syllabus for B.Arch

SIXTH SEMESTER (W.E.F. JANUARY 2015)

SUBJECT NAME: StructureVI

SUBJECT CODE: 1065004

Focus: Masonry & Retaining Structures

Content:

Conditions under which masonry structures are recommended, design criteria for masonry structures.

Concept of Timber structures. Introduction to relevant IS codes.

Study & need of composite structures, shear connectors.

Retaining structures: Stability considerations, types of retaining walls, design considerations and recommendation using approximate methods (thumb-rules).

Type of over head water tanks. (RCC and Steel). Design factors influencing shape of water tanks.

Types of foundations, importance of soil & other factors while recommending type of foundation

Reference Book

SR.NO.	TITLE	AUTHOR
01.	Building Construction	Rangwala
02.	Building Construction	S.P.Bindra
03.	Limit State Method Of R.C.C. Design	Ramchandra
04.	Design Of Steel Structures	Ramchandra
05.	Design Of R.C.C. Structures	K.L.Rao
06.	Design Of R.C.C. Structures –II	H.J.Shah
07.	National Building Code	BIS, New Delhi