

BOARD OF TECHNICAL EXAMINATIONS, GOA STATE  
Diploma in Architectural Assistantship

( 4520 ) BUILDING CONSTRUCTION - I

Pre-requisite

Lectures per week (hrs): 2

Practicals per week (hrs): 6

Course Credits 86

Semester	Theory	Test	Total	TW	PR	Gr Total
	75	25	100	25	-	125

Prog. Ass. Marks: 50

Pract. Exam Marks: 50

Total Marks 100

Rationale: Architecture is composite of Art & Technology. The aim of this Curriculum is to introduce the student to different building components and to impart knowledge of basic construction Techniques of walls and other components in brick.

Sr. No.	Course Content	Hrs.	Marks
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I Identification of different building components and their uses  
viz - foundation, plinth, wall, floors, roofs. Openings (doors, windows, ventilators) sill, lintel arch-chajja, canopies, parapet, coping.

II Signs and Symbols  
a) Building Materials- representation in section and elevation  
b) Other graphical representations for north directions, trees, center lines, parking etc.

III Masonary in brick  
- Introduction to brick masonry  
- Terminology & types in brick.  
- Bonds definition & types - English bond, Flemish bond, header bond, stretcher bond.  
- Method of laying in construction of simple walls & piers.  
- Toothing- definition & use  
- Racking back - definition & use.

TERM WORK

02 No. drawing sheets on chapter I

02 No. drawing sheets on chapter II

01 No. drawing sheets on chapter III

Reference Books:- 1) Building construction by Dr. B. C. Punmia  
2) Building construction by Shushilkumar  
3) Building construction by N. R. Moorthy.

Note:- Practicals shall be done on brickwork based on chapter III

Term work :- students shall be well acquainted with site works with site visits.