

4532 - BUILDING CONSTRUCTION - V										
Teaching Schedule Per Week			Progressive Assessment		Examination Schedule (Marks)					
Lectures	Practical	Credit			Theory		Practical Ex.		Total	
2	4	6	25	25	3 Hrs	100	50		200	
Pre-requisite		Source	Semester	Theory	Test	Total	TW	PR	Gr Total	
4528		ARC								
				75	25	100	50	—	150	

RATIONALE: In this curriculum the student will be introduced to the complex and advanced building construction techniques and detailing involved in a case study of a high rise multicell structure.

COURSE CONTENTS	Hrs	Mks
<b>1. FOUNDATIONS</b>	18	16
Complex foundations in R.C.C. and steel like combined footings raft foundations, grillage foundation. Piles, Basements-Introduction, detailing		
<b>2. PARTITION WALLS</b>	24	24
Different types of partition wall, Choice of material, Detailing of different types of partition walls like brick, timber, panel slabs in plaster, wood wool etc., glass. Detailing at the junction of various components and between different materials, Curtain walls –detailing.		
<b>3. FALSE CEILING</b>	18	20
Types of decorative false ceiling materials, Choice of material, Constructional detailing of different types like, timber, plaster of Paris and other materials.		
<b>4. BUILT IN FURNITURE SYSTEM</b>	24	28
1 Study of various built in cabinets, shelves and other furniture systems 2 Use and choice of various materials-constructional details of each type		
<b>5. ADVANCED MEANS OF VERTICAL ACCESS</b>	12	12
Introduction to mechanical means of vertical access, Choice of means, location, Types - elevators and escalators, Advantages and disadvantages, Constructional detailing of civil works and working techniques		
Total	32	100

**NOTE:**

The constructional details in the following chapters will be based on the concentration of a high rise multicell structure like a commercial complex etc.

**TERM WORK:**

- Two sheet of full imperial on topic under Sr.No 1.
- Three sheets of full imperial on topic under Sr.No 2.
- Two sheets of full imperial on topic under Sr.No 3.
- Three sheets of full imperial on topic under Sr.No 4.
- One sheet of full imperial on topic under Sr.No 5

**REFERENCE BOOKS:**

- 1) Building construction B. C. Punmia.
- 2) Building construction Bindra & Arora .
- 3) Building construction Sushil Kumar.
- 4) Building construction D. K. Ching

