

4528 - BUILDING CONSTRUCTION - IV										
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
4524		ARC			75	25	100	50	-	150

RATIONALE: Graduating to the study of a multiple structure as a case the constructional details of a slightly complex nature will be handled in this curriculum.

COURSE CONTENTS

	Hrs	Mks
1. PLINTH Detailing of all components of a plinth considering various soil conditions and different levels involved.	6	8
2. OPENINGS Detailing of complex doors and windows shutters using materials like wood, steel, glass and other advanced materials separately and in combination.	18	12
3. WATER PROTECTION SYSTEM Causes and method, defects and sources of dampness, Materials used for damp roofing. Detailing of damp proofing/water proofing to various building components due to external weather conditions viz. Foundation, basements, floors, walls, flat roofs, pitched roofs, parapet walls etc. Cavity walls – detailing. Detailing of water proofing to various building components due to internal water like in W.C, bath etc.	28	32
4. STAIRCASE Terminology, limitations, location, Types of stairs based on shapes, Detailing of masonry, R.C.C., steel, timber staircase.	24	28
5. UPPER FLOORS Introduction to upper floor, Types of upper floors-R.C.C., timber, steel jack arch flooring, Detailing of each type.	20	20
Total	30	100

NOTE:

The constructional details in the following chapters will be based on the case of a multi cell, two storeyed structures like a residential house etc.

TERM WORK:

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

REFERENCE BOOKS:

- Building construction B. C. Punmia.
- Building construction Bindra & Arora.
- Building construction Sushil Kumar.
- Building construction D. K. Ching

