

1151CE302 (VTUR15)	BUILDING DRAWING (Drawing Hall Practice Followed by CADD LAB)	L	T	P	C
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Course Category: Laboratory Course

A. Preamble:

The fundamental concepts of the basic principles of drawing the plan, section and elevation for Perspective view of one and two storey buildings

B. Prerequisites:

- Engineering Graphics

C. Link to other Courses:

- Estimation and Quantity Surveying
- CADD Drawing

D. Course Educational Objectives:

- The student should be able to draft on computer building drawings (Plan, elevation and sectional views) in accordance with development and control rules satisfying orientation and functional requirements

E. Course Outcome:

CO Nos.	Course Outcomes	Level of learning domain (Based on revised Bloom's)
CO1	Understand the basic principles of drawing the plan, section and elevation of Buildings with load bearing walls (Flat and pitched roof) including details of doors and windows	K3,S3
CO2	Understand the basic principles of drawing the plan, section and elevation of RCC framed structures	K3,S3
CO3	Understand the basic principles of drawing the plan, section and elevation of Industrial buildings – North light roof structures – Trusses	K3, S3
CO4	Understand the basic principles of drawing the plan, section and elevation for Perspective view of one and two storey buildings	K3, S3
CO5	Understand the basic principles of drawing the plan, section and elevation of one and two stories building.	K3, S3

F. List of Experiments:

Note:

Unit I and Unit II are to be practiced in the Drawing Hall and Units III to V to be practiced in CAD Laboratory.

UNIT I BASICS OF BUILDING DRAWING

(Drawing Hall Practice with Instruments)

Drawing – Normal Residential Building - Plan – Front view – Section. Types of Doors and Windows. Dimensioning all parts – Labelling all facilities, Conventional Signs of Materials in Sections, Symbols, Building Bye-laws and Building Rules.

UNIT II RESIDENTIAL BUILDINGS

General arrangement – site plan – floor plans – section details – elevation – specifications. Flat Roof Building with Load bearing walls

Pitched Roof Building with Load bearing walls.

UNIT III RCC STRUCTURES

Detailing for Framed Structures - Columns – Beams – Footing. Column – beam Junctions – Slabs – specifications –Standards.

Any one type from the following to be prepared.

Library Building, Hospital, Primary Health Centre, Any School Building.

UNIT IV STEEL STRUCTURES

Detailing of full structural works. Welds – Bolts – Joints - Developing a North light Roof Structure.

UNIT V ARCHITECTURAL DRAWING

Perspective view of single and double storied building consisting of all components.

TOTAL: 30 Periods

G. Learning Resources:

a) References:

Bhatt N. D, Engineering Drawing, Charotar Publishing, 50th Edition, 2011