

COURSE TITLE : **WORKING DRAWING -II**
COURE CODE : **4008**
COURSE CATEGORY : **A**
PERIODS/WEEK : **3**
PERIODS/SEMESTER : **54**
CREDITS : **2**

TIME SCHEDULE

MODULE	TOPIC	PERIODS
1.	Introduction	4
2.	Submission Drawing	8
3.	Kitchens	16
4.	Toilets	16
5.	Electrification	5
6.	Plumbing – Water Supply & Sanitation	5
Total		----- 54 =====

OBJECTIVES

1.0 Introduction

- 1.1 Develop single line sketch into proper drawing (residence is sufficient)
- 1.2 Draw the centre line drawing as well as the set out drawing

2.0 Prepare a submission drawing

- 2.1 Awareness of the different details required in a submission drawing
- 2.2 Understand house drainage pattern, septic tank, soak pit details
- 2.3 Draw all necessary drawings and details of a residence as a submission drawing and be familiarized with it

3.0 Draw details of a Kitchens

- 3.1 Draw the plan of a Kitchen showing all details
- 3.2 Draw sections through a Kitchen showing all heights and details

4.0 Prepare toilet details

- 4.1 Draw the plan of a toilet showing important fittings
- 4.2 Draw important sections through a toilet showing mounting heights etc

5.0 Electrification

- 5.1 Learn the important symbols used in electrical diagrams
- 5.2 Draw the electrical fitting layout for a small house

6.0 Plumbing

- 6.1 Learn how to provide a pump & connection to water tank
- 6.2 The location of waste water pipes and fresh water pipes in a residence
- 6.3 Learns the pattern of providing inspection chambers, manholes, septic tank, soak pit etc.

CONTENT DETAILS

MODULE – I: Introduction

This chapter introduces the student to practical fieldwork by concentrating on the set - out of a building. A detailed centre line drawing should be done showing all measurements.

MODULE II: Submission Drawing

The submission / corporation drawing shall include plans, elevation, section, site plan, location plan, septic tank details, compound wall details journey details, area statement etc. All specifications should be as per KMBR

MODULE III Kitchen Details

Planning of a kitchen, counter height, top cabinet height, depth of counter slab, heights for different equipment, details of cabinets, drawers etc, lighting their mounting heights etc. Sectional elevators should show all elevational details including mounting heights. Plan should show locations of various facilities with all detailed dimensioning and specifications. Sizes of kitchen equipment should be known

MODULE IV: Toilets

Planning of a toilet, arrangement of various fittings such as water closet, shower, bath tub, geyser, wash basin etc, their mounting heights etc learn to draw toilet plans and sectional elevations showing all details dimension, clearances and specifications

MODULE V: Electrification

Learn all-important, symbols used in electrical drawings. Know the various fittings necessary for different rooms. Learn to draw them accordingly in building plan and draw the switches in connection with the light fittings

MODULE VI: Plumbing

Learn to draw the plumbing details of a residence. The inlet and outlet pipes for fresh water and soiled water. Learn the positioning of inspection chambers, septic tank, soak pit etc, In short the student should be through with basic house drainage and water supply.

REFERENCE BOOKS

- 1. Building construction – S.P. Bindra & Arora
- 2. Building Construction – Sushil Kumar

3.A text book of Building construction – Mc Kay