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31047- CAD IN CIVIL ENGINEERING DRAWING PRACTICE I

DETAILED SYLLABUS

Objectives

On completion of the course, the student will be able

- To know about CAD commands
- To understand building components
- To draw building drawing using CAD software
- To prepare approval drawing for submission to authority

LIST OF EXPERIMENTS

Preparation of drawing using CAD Software

Introduction of CAD software for Preparation of Drawings

- 1. Definition of various commands used in CAD software.
- 2. Simple Exercises for familiarizing the drawing commands in CAD software.

PART A

Draw the given drawings in Computer and take print out of all drawings in A4 sheet using Inkjet / laser printer or plotter and produced in file forms as record.

- 1. Section of semi-circular Arch
- 2. Elevation of door, partly panelled and partly glazed
- 3. Preparation of Plan showing arrangement of furniture / fixtures and other features with standard sizes for the followings (Each room to be drawn separately features and furniture may be pasted from the Blocks available in the packages)
 - (i) Living
 - (ii) Bed Room
 - (iii) Kitchen
 - (iv) Toilet
- 4. Steel Structures: Cross section of I, Channel, T, Angle and Tubular section, Compound Beams.
- 5. Section of Load bearing wall from parapet to foundation showing all the details across the section. (Single storey)

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PART B

- 1. Draw the building drawing using available CAD software
- 2. Plan, Section and Elevation of single bed roomed building (R.C.C. Roof)
- 3. Plan, Section and Elevation of Double bed roomed building (R.C.C. Roof)
- 4. Plan, Section and Elevation of a Primary School Building
- 5. Plan, Section and Elevation of a Hospital Building
- Plan, Section and Elevation of a Workshop with steel columns, Steel roof truss and Metal sheet Roofing of about 300 m2 area.
- 7. Preparation of approval drawing to be submitted to Corporation or Municipality showing required details in one sheet such as
 - a) Site Plan (Land boundary, Building boundary, Car Parking, Passage, sanitary layout, septic tank location etc.
 - b) G.F. Plan, F.F. Plan, Section and Elevation (line diagram is enough)
 - c) Key Plan
 - d) Septic tank Plan and section (line diagram)
 - e) Rain water harvesting pit (with all detail)
 - f) Typical foundation details (Column foundation or spread footing)
 - g) Title block showing joinery details, Specification, Area statement, colour Index, Title of the property, space for owners Signature and Licensed Surveyor's Signature with address.