

Engineering Drawing

Course Code ME-109	Credit Hours 0-2
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Course Description

This course introduces students to the civil engineering drawing fundamentals. The major components of the course include introduction to different standard drawing tools such as different types of lines and symbols; making of plans, elevations and cross sections of different buildings; orthographic projections; sectional and auxiliary views and isometric drawing. The course involves extensive hand-on training and exercises, where each student prepares his own drawing sheets.

Text Book:

1. Engineering Drawing, by Zahid Ahmed Siddiqui.
2. A First year Engineering Drawing (Latest Edition), by Parkinson, A.C.

Reference Book:

1. Elementary Engineering drawing, by N.D. Bhatt.
2. Engineering Drawing and Introduction to AUTO CAD, by Dhananja.

Prerequisites:

Nil

ASSESSMENT SYSTEM FOR THEORY

	Without Project (%)	With Project/Complex Engineering Problems (%)
Quizzes	15	10-15
Assignments	10	5-10
Mid Terms	25	25
Project	-	5-10
End Semester Exam	50	45-50

ASSESSMENT SYSTEM FOR LAB

Lab Work/ Psychomotor Assessment/ Lab Reports	70%
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Lab Project/ Open Ended Lab Report/ Assignment/ Quiz	10%
Final Assesment/ Viva	20%

Teaching Plan

Week No	Topics/Learning Outcomes
1	Introduction to Civil Engineering Drawing, Drawing Instruments Line types, Dimensions, and projection theory
2	Lettering and Geometric construction
3	Dimensioning
4 - 5	Scales & Isometric Drawing
6-8	Orthographic views of Machine Drawings.
10-14	Orthographic views of Building Drawings. (Plans, Elevations)
14-16	Sectional views of building drawings
17-18	End Semester Exam

Practical:

Experiment No	Description
1	Lettering
2	Scales
3	Orthographic Projections
4	Building Drawing Plan and Elevation
5	Building Drawing Sections