

19.3 Other Engineering Courses:

Course Title: Mechanical Engineering Drawing
Course Code: ME 1104

Course Type: Other Engineering Course
Status: Sessional

Credits: 0.75
Pre-requisite: None

Course Rationale:

This course aims to provide students an understanding of engineering drawing, an essential means of communication in engineering.

Course Objectives:

The objectives of this course are-

1. To familiarize with drawing instruments and conventions in making engineering drawings.
2. To introduce with freehand single view and multi-view sketching. To acquaint with Isometric sketching techniques and multi-view projections.
3. To develop the knowledge of AutoCAD (Or Solid Works) in making engineering drawings with dimensions and taking sectional views.

Course Learning Outcomes (CLOs):

Upon successful completion of this course, students will be able to

CLO1 Demonstrate (C2, P2) different drawing equipment, technical standards and procedures for construction of geometric figures

CLO2 Draw (A2) freehand single view, multi-view sketches, and isometric sketches.

CLO3 Create (P4) and modify (P4) two-dimensional orthographic drawings using CAD tools

CLO4 Report (A3) lab activities and experimental results or findings

Mapping of Course Outcomes to Program Outcomes-

	PLO(a)	PLO(b)	PLO(c)	PLO(d)	PLO(e)	PLO(f)	PLO(g)	PLO(h)	PLO(i)	PLO(j)	PLO(k)	PLO(l)
CLO1	√				√							
CLO2	√											
CLO3	√				√							
CLO4	√								√			

Course Description:

SL No.	Course Content	CLOs
1.	Mechanical Engineering Drawing Introduction, Orthographic drawings, First and third angle projections, scale drawing, sectional view, isometric views, missing line, auxiliary view, detail and assembly drawing	CLO1, CLO2

2.	CAD Tools Drawing using CAD tools or contemporary packages instructed by the teachers.	CLO3
3.	Report	CLO4

Textbooks, References & Other Resources:

1. Lab Manuals

Mapping Course Learning Outcomes (CLOs) with the Teaching-Learning & Assessment Strategy:

CLOs	Teaching Learning Strategy	Assessment Strategy
CLO1	<ul style="list-style-type: none"> Interactive Lecture Design done by Students Mini Project Student Presentation Student Demonstration 	Class Performance, QUIZ, VIVA
CLO2		Class Performance, Report
CLO3		Class Performance, QUIZ, Presentation
CLO4		Report

Course Title: Introduction to Electrical Engineering

Course Code: EEE 1101

Course Type: Other Engineering Course

Credits: 3

Status: Theory

Pre-requisite: None

Course Rationale:

Intended to enable the students to learn the fundamentals of electrical circuits. Use the acquired knowledge to understand the working and operations of electrical circuits to solve the problems for industry opportunities.

Course Objectives:

The objective of the course is

1. To provide the knowledge of Alternating Current (AC) and Direct Current (DC) circuits/networks.
2. Helping the students develop the ability to solve the unknown electrical parameters used to design electrical circuits.
3. To develop skills to analyze and criticize the behavior of electrical circuits.

Course Learning Outcomes (CLOs):

Upon successful completion of this course, students will be able to

CLO1 Demonstrate (C3) the electrical parameters which are used to design electrical and electronic devices.

CLO2 Illustrate (C3) the circuit laws, network analysis and methodologies to solve DC as well as AC circuits/networks.

CLO3 Solve (C3) different types of circuit theorems to find the unknown parameters of an electrical circuit/network.