SECTION HEADING

MECH 1115: Computer Aided Design

Description

Computer Aided Design introduces the skills needed to design, draw, edit, and publish various industrial schematics using CAD software. Students will demonstrate the ability to edit and design mechanical, electrical, and structural schematics. Course time will include instruction on drawing setup and commands along with hands-on lab time working with and creating drawings.

Credits

2

Prerequisite

None

Corequisite

None

Topics to be Covered

1. Understanding the workspace.

2. Basic drawing setup.

3. Create and edit drawings.

4. Basic drawing commands.

5. Drawing units and scales.

6. Models and layouts.

7. Line types and layers.

8. Dimensioning.

9. Coordinate systems

10. Grid and snap controls.

11. Templates.

12. Print and plot drawings.

Learning Outcomes

1. Describe the workspace.

2. Perform drawing setup.

3. Utilize various drawing tools to create industrial schematics and prints.

4. Modify drawing features, objects, and drawings.

5. Publish industrial schematics and prints.

Credit Details

Lecture: 1

Lab: 1

OJT: 0

MnTC Goal Area(s): None