

CPE 214 – Computer-Aided Engineering Design



Lab #1 To describe CAD software and different function using AutoCAD.

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OBJECTIVE(S):

- **Introduction to CAC software.**
- **Interaction with interface.**

INTRODUCTION:

The term CAD (Computer Aided Design) applies to a wide range of programs that allow the user to create drawings, plans, and designs electronically. AutoCAD is one such program and its main claim to fame is that it is relatively easy to use, it is very comprehensive in its ability to create 2D and some 3D drawings, and it is very popular. Seventy percent of the CAD users in the world use AutoCAD.

LAB TASKS:

Task 1:

- **Save the file on desktop using command line.**
To save the file write “save” on the command line and press enter, New window will pop-up. Select desktop and press save.
- **Open the file using command line.**
Write “OPEN” in command line and press enter. New window will pop-up, select the file and press open.
- **Close the file using command line.**
Write “CLOSE” file will automatically close.

Task 2:

- **Set the X & Y spacing of snap and grid as 0.5 and see what is happening with your grid points & cursor movements.**
The dots on the screen increase and the cursor does not move freely.

POST-LAB TASKS:

Task 1:

- **Set the X & Y spacing of snap grid as 1.0 and see what is happening with your grid points & cursor movement.**
The dots on screen are equal to limits. And cursor moves by the spacing of 10 points.
- **Set the X & Y spacing of snap grid as 5.0 and see what is happening with your grid points & cursor movement.**
The dots on screen are decreased. And cursor moves by the spacing of 2 points.

CONCLUSION:

In this lab we came to know about the tools in AutoCAD. And how to save, open and close the project in AutoCAD.