

CPE 214 – Computer-Aided Engineering Design



Lab #3 To describe and practice the basic commands using AutoCAD.

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OBJECTIVE(S):

- To understand the concept of different shapes.
- And to practice the drawing using command

INTRODUCTION:

This is the list of some of the most basic AutoCAD commands which every AutoCAD user should know. These are some of the Draw and Modify commands which make the very basics of AutoCAD and if you are just starting to [learn AutoCAD](#) then you should know all of these basic commands.

L It can be used for making simple lines in the drawing.

C It is the command used for making a circle in AutoCAD.

PL This command can be used to make a Polyline in your drawing.

REC This command will make a rectangle in AutoCAD.

POL This command can be used to make a polygon with minimum 3 sides and a maximum of 1024 sides.

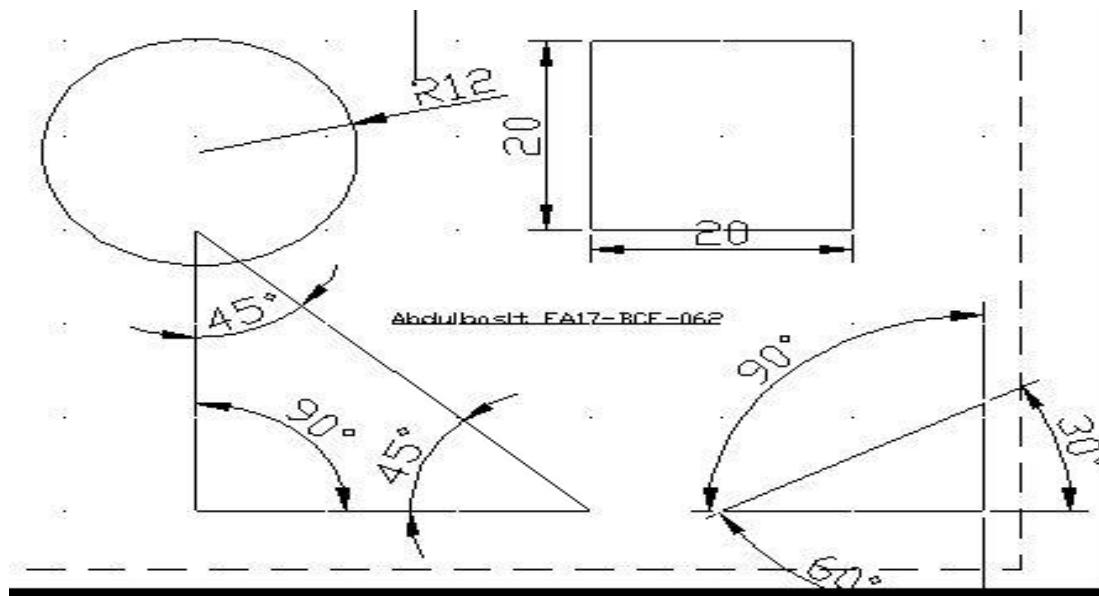
ARC As the name suggests, this command can be used to make an arc in AutoCAD.

ELLIPSE As the name suggests, this command can be used to make an ellipse with the major and minor axis.

LAB TASKS:

Task 1:

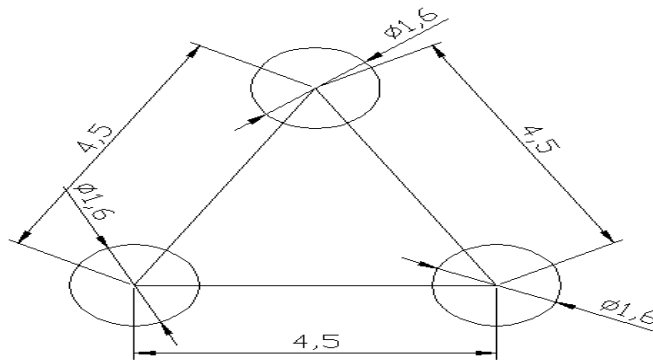
- Circle with radius 12mm
- Square of side 20mm
- A triangle with 30,60 & 90.
- A triangle with 90,45 & 45.



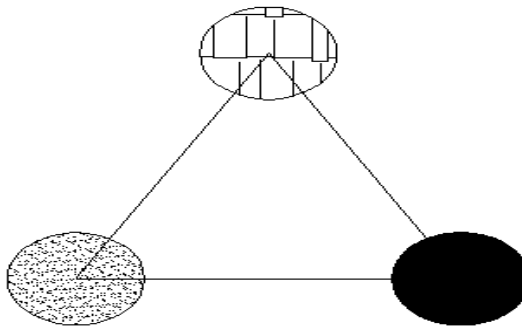
POST-LAB TASKS:

Task 1:

- Draw an equilateral triangle having sides of 4.5m and an angle of 60. Also draw three circles of 1.6m diameter each at three corners of the triangle



- Hatch the circles at the corner of triangle with appropriate pattern.



CONCLUSION:

In this lab we learned how to draw basic objects using command line. And how to check there parameters.