

COMPUTER AIDED DRAWING

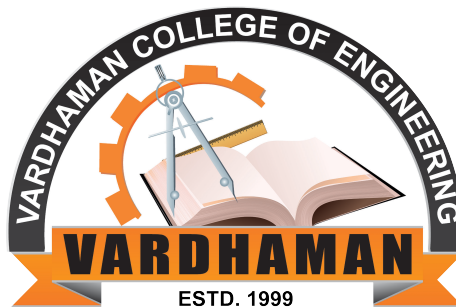
A6301

Experiment No. 6

Projection of Lines - II

Faculty Name:

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Group Name

I B.Tech I Semester

ECE - B

VARDHAMAN COLLEGE OF ENGINEERING

(AUTONOMOUS)

Affiliated to **JNTUH**, Approved by **AICTE**, Accredited by **NAAC** with **A++** Grade, **ISO 9001:2015** Certified
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Projection of Lines II

1 Objectives

To perform orthographic projections for Lines situated in different orientations.

2 Aim

Perform the following in AUTOCAD

- A 80 mm long line AB has end A 20 mm above H.P. and 40 mm in front of the V.P. The line is inclined at 30^0 to the H.P. and is parallel to the V.P. Draw the projections of the line.
- An 80 mm long line LM is inclined at 30^0 to the V.P. and is parallel to the H.P. The end L of the line is 20 mm above the H.P. and 40 mm in front of the V.P. Draw the projections of the line.
- A 60 mm long line PQ lying on the H.P. is inclined at 30^0 to the V.P. Its end P is 20 mm in front of the V.P. Draw the projections of the line and determine its traces.
- Draw the projections of a 70 mm long line CD, situated in the V.P. and inclined at 30^0 to the H.P. The end C of the line is 25 mm above the H.P. Also.

3 Software Used

- AUTOCAD

4 System Requirements

- (a) **System Type:** Windows 10 64 Bit Operating System
- (b) **Processor:** i3
- (c) **RAM:** 4 GB

5 Commands Used

- (a)
- (b)
- (c)
- (d)

- (e)
- (f)
- (g)
- (h)
- (i)
- (j)
- (k)

6 Experimental procedure

- (a) Open the file with name *Template.dwg* and edit the title block.
- (b) Perform the units and ucsicon commands.
- (c) In the limits set the A4 sheet dimensions 297x210.
- (d)
- (e)
- (f)
- (g)
- (h)
- (i)
- (j)
- (k)
- (l) Save the file in the local disk in the following path *D:22881A0401/Projection of Points I*.

7 Result

The solutions of the projection of lines are analysed and drawn in the AUTOCAD.