

1. Exercise: 1 2. Date:

3. Title : Essentials of engineering graphics Introduction and basics

 Aim : To know the importance of Engineering Graphics, standards, lettering; and to draw simple 2D objects in CAD software.

5. Software used: AutoCAD - 2020

6. Introduction:

i. About Engineering Graphics:

An engineering drawing is a type of technical drawing that is used to convey information about an object. A. common use is that to use the geometry needed for the construction of component and it called a detailed drawing.

It gives ideas to construct a building at automobile parts before starting the actual work in real life.

The process of producing engineering drawing is often referred to an flechnical drawing or drafting.

It gives more detailed vision on the work, key information such as dimensions that are usually specified in one place of drawing avoiding redundancy and possibility of inconsistencies.

ii. About Drafting tools and its advantages over conventional drafting:

· Drafting tools are instruments that are used for measurements and layout of drawings or to improve consistency and the speed for creating standard drawing elements.

· AutoCAD is a drawing drafting tool which was



introduced by AutoDesk Inc. It is a command based software.

· It is widely used by civil engineers. Drafting tools has many advantages over conventional drawing tools. It gives correct measurement over fraccision.

- 7. Procedure (for solving question #): Draw a table.
 - 7.1 Question outline
 - 7.2 Object
 - 7.3 Conditions (if any)

170 -	
OGRAPHIC MULTIVIEW	V PROJECT
RA2011026010022	Ex. NO -
DEBARGHYA BARIK	DATE:
ENGINEERING GRAPHICS	SCALE:
	1
SARAVANAKUMAR-R	
	DGRAPHIC MULTIVIEV RA201102G010022 DEBARGHYA BARIK ENGINEERING GRAPHICS 8ARAVANAKUMAR-R

Fig. Free hand sketch of the solution to question #

7.4 Drawing Procedure:

Step 1. First we have to set write, limits, and text style. Units: mm, precision is 'O'. limits: Upper Right corners (0,0), Lower Right Corner (297, 410). Text size height 'T' and width factor 'O.7'.

Step 2: We have to draw a box of size & [70×60 and we have to use offset tool and draw lines in tegular interval of 10 mm.



STEPB:	
_ we	have to use the trim-command and evane
the lines	whereever required.
STEP 4: US	whereever required. e the text command and write everything
inside the	o box.
STEPS: Ty	the polygon and draw the number of side and in the command box. The types of circles by using circle
raquire	ld in the command box.
Step 6:	as the types of circles by using circle
command	2.
STED 7: To	The Annotate is command box and the lengths of all shapes.
measure	the lengths of all shakes.

8. Commands used:

S.N.	Command	Use
1	Units	To set reference units and precision
2	Limit	To set working area
3	Text	To type text
4	Ortho	To draw straight lines
5	Lines	To draw lines.
6	Polygon	To draw shapes.
7	Trum	To cut unwanted lines
8	move and rotate	To move texts and rotate.

9. Result:

Experiment completed successfully using AutoCAD - 2020

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