

Engineering Drawing

EG 1104 AR

Year: I
Semester: I

Total: 4 hour /week
Lecture: 1 hours/week
Tutorial: hours/week
Practical: 3 hours/week

Course Description:

This course deals with geometrical construction, orthographic projections and basic techniques of freehand sketch.

Course Objectives:

After completing this course the students will be able to:

1. Present different shapes accurately.
2. Apply geometrical constructions, project point, line, plane and geometrical solids.
3. Present three dimensional objects in orthographic from and dimension them.
4. Use freehand techniques to sketch different shapes.

Course Contents:

Unit 1.	Introduction:	[4]
	1.1	Engineering drawing as graphic language
	1.2	Drawing instruments
	1.3	Scale: Reduced scale, enlarged scale, full size scale
	1.4	Conventional line types
	1.5	Sheet size and sheet layout
	1.6	Exercise on drawing horizontal, vertical and inclined lines and conventional line types [<i>Sheet 1</i>]
Unit 2.	Technical Lettering:	[4]
	2.1	General procedure for freehand technical lettering: letter stroke, letter proportion, use of pencil and pens, uniformity of letters
	2.2	Single stroke vertical capital letters, Single stroke inclined capital letters, Single stroke vertical lowercase letters, Single stroke inclined lowercase letters, vertical and inclined numerals, vertical and inclined fractions
	2.3	Lettering using templates
	2.4	Exercise on freehand technical lettering and lettering using templates [<i>Sheet 2</i>]
Unit 3.	Geometrical Construction:	[12]
	3.1	Construction on straight lines and angles Bisection and trisection of a straight line, Bisection and trisection of an angle, To draw perpendicular lines, To draw parallel lines, To divide a straight line

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David A. Madsen, David P. Madsen



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