



Course Syllabus
First Semester 2018

1. FACULTY: Engineering

DEPARTMENT: Mechanical Engineering

2. COURSE TITLE: 01208111 - Engineering Drawing (3 cr. hrs.)

3. COURSE DESCRIPTION

Lettering techniques, applied geometry drawing, orthographic drawing, pictorial drawing, dimensioning and tolerancing, sectional view drawing, auxiliary views, development, sketching techniques, detail and assembly drawings, introduction to computer-aided drawing.

4. OBJECTIVE

To study and thoroughly understand various topics in engineering drawing: Lettering techniques, applied geometry drawing, orthographic drawing, pictorial drawing, dimensioning and tolerancing, sectional view drawing, auxiliary views, development, sketching techniques, detail and assembly drawings, introduction to computer-aided drawing.

5. CONTENT

1. Lettering
2. Applied Geometry
3. Orthographic Drawing
4. Isometric Drawing
5. Oblique Drawing
6. Dimensioning and Introduction to Tolerance
7. Sectional View
8. Sketching Techniques
9. Detail and Assembly Drawings
10. Auxiliary Views
11. Developments
12. Introduction to Computer-Aided Drawing

6. TEACHING METHOD AND STUDENT-CENTERED SYSTEM

Lecture hours: Lectures and discussion

Lab hours: Drills and exercises about engineering drawing techniques.

7. TEACHING TOOLS

1. Readings
2. White board
3. Transparency and overhead projector
4. Computers
5. V.D.O. Projector

8. GRADING

Homework	30 %
Midterm Exam	35 %
Final Exam	35 %
Total	<u>100 %</u>

9. EVALUATION

1. Students will get zero point for the absent section.
2. Students must turn in the plate assignments on time.
3. Students who absent more than 3 sections will get grade “F” automatically.
4. All three sets of scores will be accounted for grading: (homework, midterm exam, and final exam).
5. Students who cannot take their examinations as scheduled because documented serious illness (admitted to the hospital) may appeal for a make-up examination.

10. OFFICE HOURS

Instructor will inform the office hours.

11. TEXTBOOKS

1. French, Svensen, Helsel and Urbanick, Mechanical drawing, McGraw-Hill, 1985.
2. Boundy, Engineering Drawing, McGraw-Hill, 2003.

12. Class Schedule

Week	Date	Topics	Plate #
1	6 - 11 Aug 2018	Class Introduction	
2	14 - 18 Aug 2018	Lettering	1
3	20 - 25 Aug 2018	Applied Geometry	2
4	27 Aug – 1 Sep 2018	Orthographic Projection	3
		<u>Engineering Drawing Reading (For exam only)</u>	
5	3 - 8 Sep 2018	Isometric Drawing	4
6	10 - 15 Sep 2018	Oblique Drawing	5
7	17 - 21 Sep 2018	Review	
	22 - 30 Sep 2018	Midterm Examination (Plate # 2 – 5 + <u>Engineering Drawing Reading</u>)	
8	1 - 6 Oct 2018	Dimensioning and Tolerancing	6
9	8 - 12 Oct 2018	Sketching Techniques and Detail and Assembly Drawings	7
	14 – 20 Oct 2018	Commencement Rehearsal	
	21 - 25 Oct 2018	Commencement day (no class)	
10	29 Oct - 3 Nov 2018	Sectional View	8
11	5 - 10 Nov 2018	Auxiliary View	9
12	12 - 17 Nov 2018	Development I	10
13	19 - 24 Nov 2018	Development II	11
15	26 Nov - 1 Dec 2018	AutoCAD (See announcement for future update)	12
16	3 - 8 Dec 2018	Review	
	10 – 21 Dec 2018	Final Examination (Plate # 6, 8 - 11)	

13. Instructors

Lecture	Date/Time	Room	Laboratory	Date/Time	Room	Instructor
450	Tue 13.00-15.00	E 17401	450	Tue 15.00-18.00	E 17401	Chalermpon
451	Tue 13.00-15.00	E 17402	451	Tue 15.00-18.00	E 17402	Attaporn
480	Tue 13.00-15.00	1306	480	Tue 13.00-15.00	1306	Anchana

* Student must enroll the same group of lecture and laboratory.