

**WELCOME TO
ME 113
ENGINEERING DRAWING I
2025-2026
FALL**

LECTURERS

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ASSISTANT
Res. Asst. M. Ali AKELOĞLU

COURSE OBJECTIVE

Engineering drawing is the Universal Language in all phases of industrial and engineering work, therefore, all engineering and technical personnel must have a good knowledge of drawing techniques.

- A language used in the design process for communicating, solving problems, quickly and accurately visualizing objects, and conducting analysis
- A graphical representation of objects and structures and is done using freehand, mechanical, or computer methods

COURSE OUTLINE AND SCHEDULE

(2025-2026 FALL SEMESTRE)

WEEK	DATE	TOPICS	READING ASSIGNMENTS (PAGES)
1	24/09/25	INTRODUCTION and LETTERING	METU (1-20) BAĞCI (31-35)
2	01/10/25	GEOMETRIC CONSTRUCTIONS	METU (21-30) BAĞCI (36-57)
3	08/10/25	ORTHOGRAPHIC PROJECTION	METU (31-88) BAĞCI (60-82)
4	15/10/25	ORTHOGRAPHIC PROJECTION	METU (31-88) BAĞCI (60-82)
5	22/10/25	ORTHOGRAPHIC PROJECTION	METU (31-88) BAĞCI (60-82)
6	29/10/25	Holiday	
7	05/11/25	ORTHOGRAPHIC PROJECTION	METU (31-88) BAĞCI (60-82)

COURSE OUTLINE AND SCHEDULE

(2025-2026 FALL SEMESTRE)

WEEK	DATE	TOPICS	READING ASSIGNMENTS (PAGES)
8	12/11/25	MIDTERM I	
9	19/11/25	AutoCAD screen (Drawing Area, Toolbars, Ribbons, Command Line), File Commands (New, Open, Save, Save As), Help (F1), Dynamic Input (F12), Line(L), Erase(E), U, Undo & Redo, Zoom(Z), Pan(P),	
10	26/11/25	Coordinate Systems (Cartesian, Polar, Absolute and Incremental). Circle & Arc, Limits, Grid (F7), Snap (F9), Ortho (F8), Osnap (F3) & Tracking (F11).	
11	03/12/25	Linetype(LT) & Linetype Scale(LTS), Trim and Offset(O). Extend(EX), Stretch (S), Rotate(RO), Mirror(MI), Array(AR), Fillet(FI) & Chamfer(CHA).	
12	10/12/25	Text(T) & Text Style, Table, Copy & Move, Break, Rectangle, Polyline & Polyline Edit, Polygon, Ellipse.	
13	17/12/25	MIDTERM II	
14	24/12/25	Units, Scale, Object Properties, Divide, Point Style, Measure.	

REQUIRED INSTRUMENTS AND MATERIALS

1. PENCILS (Standard or Semiautomatic), (2H, H, F) or (2H, H, HB)
2. ERASER (Soft and Good Quality)
3. SAND PAPER PAD (Zimpara), and PENCIL SHARPNER
4. T-SQUARE (About 50 cm Long)
5. 30° -60° TRIANGLE (About 20 cm in Hypotenuse Length)
6. 45° TRIANGLE (About 15 cm Long Right Edges)
7. DRAWING PAPER SIZE A-4 (About 10 will be needed)
8. A COMPASS SET
9. NOTE BOOK WITH SQUARED PAGES
10. A FILE (Dosya)
11. CLEANING CLOTH or DRAFTSMEN'S BRUSH
12. RULER or STRAIGHT EDGE
13. SCOTCH TAPE

TEXT BOOK:

1. FRENCH, T. E., VIERCK, C. J. and FOSTER, R. J. Engineering Drawing and Graphics Technology, McGraw-Hill, Inc., 14th Edition, New York, 1993.
2. FINKELSTEIN, ELLEN, AutoCAD 2010 and AutoCAD LT 2010 Bible, Published by Wiley Publishing, Inc., 2009.

REFERENCE BOOKS:

1. Notes on Engineering Drawing, METU, Mechanical Engineering Department, 1984.
2. BAĞCI, Mustafa, Makina Teknik Resmi, M. E. B. Devlet Kitapları, TİFDRUK Matbaacılık San. A.Ş. İstanbul, 1981.

THE FINAL GRADE WILL BE WEIGHTED AS FOLLOWS:

MIDTERM I	25 %
MIDTERM II	25 %
CLASS and HOME WORKS	10 %
FINAL	40 %
	100 %

NOTES:

1. Make-up examinations will be set-up much harder, because those taking make-up tests will have an unfair knowledge on the nature of questions. Therefore; all students are advised to take regularly scheduled exams.
2. Each student must keep all his class-works and home-works neatly in a file. The files will be collected and checked at the end of the semester.
3. As you know attendance to classes is compulsory. All the students are required to be present at 70% of lectures and 80% of class-works held. Otherwise they will not be permitted to take final examination.

A B C D E F G H I J K L M N O P Q R S T U V W

X Y Z

a b c d e f g h i j k l m n o p q r s t u v w x y z

1 2 3 4 5 6 7 8 0

A B C D E F G H I J K L M N O P Q R S T U V W

X Y Z

a b c d e f g h i j k l m n o p q r s t u v w x y z

1 2 3 4 5 6 7 8 9 0

Re-write the vertical and inclined letters using the guidelines given below.

[The page contains multiple sets of horizontal dotted lines for writing.]

Drawn by	AKPOLAT ABDULLAH	ENGINEERING DRAWING I	UNIVERSITY OF GAZIANTEP FACULTY OF ENGINEERING	
Date	24.09.2025	LETTERING		
Control	ABDULLAH AKPOLAT			
Scale				
			Drawing No:	HW-1