

**WELCOME TO
ME 101
ENGINEERING GRAPHICS**

**2024-2025
SPRING**

LECTURERS

Prof. Dr. Nihat YILDIRIM

Assoc. Prof. Dr. Abdullah AKPOLAT

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 (2024-2025 SPRING SEMESTRE)

ME 101 ENGINEERING GRAPHICS

LECTURERS

: Prof. Dr. Nihat YILDIRIM

: Assoc. Prof. Dr. Abdullah AKPOLAT

ASSISTANTS:

Asim KIRBIYIK

Berrin AYDIN

COURSE OUTLINE AND SCHEDULE

(2024-2025 SPRING SEMESTRE)

WEEK	DATE	TOPICS	READING ASSIGNMENTS (PAGES)
1	28/02/25	INTRODUCTION and LETTERING	METU (1-20) BAĞCI (31-35)
2	07/03/25	GEOMETRICAL CONSTRUCTIONS	METU (21-30) BAĞCI (36-57)
3	14/03/25	ORTHOGRAPHIC PROJECTION	METU (31-88) BAĞCI (60-82)
4	21/03/25	ORTHOGRAPHIC PROJECTION	METU (31-88) BAĞCI (60-82)
5	28/03/25	ORTHOGRAPHIC PROJECTION	METU (31-88) BAĞCI (60-82)
6	04/04/25	ORTHOGRAPHIC PROJECTION and AUXILIARY VIEWS	METU (31-88) BAĞCI (60-82)
7	11/04/25	ISOMETRIC DRAWING	METU (89-102) BAĞCI (98-102)
8	18/04/25	MIDTERM I	

COURSE OUTLINE AND SCHEDULE
(2024-2025 SPRING SEMESTRE)

WEEK	DATE	TOPICS	READING ASSIGNMENTS (PAGES)
9	25/04/25	ISOMETRIC DRAWING	METU (89-102) BAĞCI (98-102)
10	02/05/25	OBLIQUE DRAWING	METU (103-108) BAĞCI (103-106)
11	09/05/25	OBLIQUE DRAWING	METU (103-108) BAĞCI (103-106)
12	16/05/25	SECTIONING	METU (109-142) BAĞCI (86-94)
13	23/05/25	MIDTERM II	
14	30/05/25	DIMENSIONING	BAĞCI (109-126)
15	06/06/25	BAYRAM	
16	13/06/25	DIMENSIONING	BAĞCI (109-126)

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.

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 20 %

MIDTERM II 20 %

CLASS and HOME WORKS 20 %

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.

Drawn by	ABDULLAH AKPOLAT	ENGINEERING GRAPHICS	UNIVERSITY OF GAZIANTEP FACULTY OF ENGINEERING	
Date	28.02.2025	LETTERING		
Control	ABDULLAH AKPOLAT			
Scale			Drawing No:	HW-1