

Course Code	Course Name	Semester	Theory	Practice	Lab	Credit	ECTS
ING144	Technical Drawing	2	1	1	0	1.5	3

Prerequisites

Admission Requirements

Language of Instruction Turkish

Course Type Compulsory

Course Level Bachelor Degree

The development of 3-dimensional thinking ability is the base of engineering education. Through the skills gained objects views and sections could be drawn. In addition, in this course students can quickly answer to design or drawing problems may encounter during their careers with the help of computer-aided design software AutoCAD. In this context, the objectives of this course are determined as follows:

Objective

- To ensure the students mastery in major rules of technical drawing that is the language of technical communication,
- To provide the students the acquisition of movements, and views of the objects in 3-D space reviving in their minds,
- To ensure the students mastery in using the acquired technical drawing skills easily in computer environment.

1. Week: Introduction: Drawing equipments,

2. Week: Introduction: Lines, papers, Norm Writing, Writing work,

3. Week: Calibration: Plate Parts,

4. Week: Geometric Drawings,

5. Week: Views,

6. Week: Sectioning: Full section, partly section, application

Content

7. Week: Mid-term exam

8. Week: Perspective drawing

9. Week: Introduction to AutoCAD, Line command, Drawing commands 1 (including ellipse drawing),

10. Week: Drawing commands 2, Methods of selecting objects, View Commands, Modifying Commands,

11. Week: Modulation commands, Hatching and application,

12. Week: Hatching commands, changing line types and application,

13. Week: Writing commands, Calibration commands and application,

14. Week: Mesh: nuts and bolts.

References

- Prof. Dr. Renzi ASLAN, Ar. Gör. A.Çağrı TOLGA, 2003, İstanbul, Bilgisayarla Teknik Resim Autocad
- Course Notes

## Theory Topics

Week	Weekly Contents
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1 Introduction: Drawing equipments,

2 Introduction: Lines, papers, Norm Writing, Writing work

3 Calibration: Plate Parts

4 Geometric Drawings

5 Views

6 Sectioning: Full section, partly section, application

7 Mid-term exam

8 Perspective drawing

9 Introduction to AutoCAD, Line command, Drawing commands 1 (including ellipse drawing)

10 Drawing commands 2, Methods of selecting objects, View Commands, Modifying Commands

11 Modulation commands, Hatching and application

12 Hatching commands, changing line types and application

13 Writing commands, Calibration commands and application

14 Mesh: nuts and bolts