



COURSE INFORMATION FORM

Course Name	Course Code
Technical Drawing	151911205

Semester	Number of Course Hours per Week		ECTS
	Theory	Practice	
1	2	2	4

Course Category (Credit)				
Basic Sciences	Engineering Sciences	Design	General Education	Social
	✓			

Course Language	Course Level	Course Type
Turkish	Undergraduate	Compulsory

Prerequisite(s) if any	-
Objectives of the Course	The aim is to impart the knowledge and skills necessary to create technical drawings of machine parts, accurately interpret drawn views, and perform dimensioning on technical drawings.
Short Course Content	Technical drawing terminology, drawing tools, freehand drawing, perspective views, basic and auxiliary views, dimensioning, sectioning, drawing reading

Learning Outcomes of the Course	Contributed PO(s)	Teaching Methods *	Measuring Methods **
1 Draws the basic views of a machine part given a perspective picture.	3	1,6,11	A,D,K
2 Draws the third view of a machine part given two views.	3	1,6,11	A,D,K
3 Carries out the dimensioning of perspective drawings and views	3	1,6,11	A,D,K
4 Reads a drawn technical drawing correctly.	3	1,6,11	A,D,K
5			
6			
7			
8			

*Teaching Methods 1:Expression, 2:Discussion, 3:Experiment, 4:Simulation, 5:Question-Answer, 6:Tutorial, 7:Observation, 8:Case Study, 9:Technical Visit, 10:Trouble/Problem Solving, 11:Individual Work, 12:Team/Group Work, 13:Brain Storm, 14:Project Design / Management, 15:Report Preparation and/or Presentation

**Measuring Methods A:Exam, B:Quiz, C:Oral Exam, D:Homework, E:Report, F:Article Examination, G:Presentation, I:Experimental Skill, J:Project Observation, K:Class Attendance; L:Jury Exam

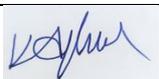
Main Textbook	Kıraç, Nejat, (2022), Teknik Resim, Dora Yayınları
Supporting References	<ol style="list-style-type: none"> 1. Kıraç, Nejat, (1997), Çözümlü Teknik Resim Problemleri, ESOGÜ TEKAM 2. Şen, İbrahim Zeki, (2019), Teknik Resim –I, De-Ha Yayıncılık 3. Other Technical Drawing Books
Necessary Course Material	Drawing Tools Computer and Projector

Course Schedule	
1	Introduction to Technical Drawing
2	Geometric Drawings
3	Geometric Drawings
4	Projections
5	Placement of Views
6	Selection and Extraction of Views
7	Completing Incomplete View
8	Mid-Term Exam
9	Dimensioning, Scales
10	Sectioning
11	Full Section, Half Section
12	Partial Section, Rotated Section, Section Moved Out of View
13	Perspective Painting Types
14	Cavaliers and Cabinets Perspective
15	Isometric Perspective
16,17	Final Exam

Calculation of Course Workload			
Activities	Number	Time (Hour)	Total Workload (Hour)
Course Time (number of course hours per week)	14	4	56
Classroom Studying Time (review, reinforcing, prestudy,...)	14	2,5	35
Homework	4	2	8
Quiz Exam			
Studying for Quiz Exam			
Oral exam			
Studying for Oral Exam			
Report (Preparation and presentation time included)			
Project (Preparation and presentation time included)			
Presentation (Preparation time included)			
Mid-Term Exam	1	2	2
Studying for Mid-Term Exam	1	3	3
Final Exam	1	2	2
Studying for Final Exam	1	4	4
		Total workload	110
		Total workload / 30	3,66
		Course ECTS Credit	4

Evaluation	
Activity Type	%
Mid-term	30
Homework	30
Final Exam	40
Total	100

RELATIONSHIP BETWEEN THE COURSE LEARNING OUTCOMES AND THE PROGRAM OUTCOMES (PO) (5: Very high, 4: High, 3: Middle, 2: Low, 1: Very low)		
NO	PROGRAM OUTCOME	Contribution
1	To possess sufficient knowledge in mathematics, science, and engineering subjects related to Metallurgical and Materials Engineering; the ability to apply theoretical and practical knowledge in these areas to model and solve engineering problems.	2
2	The ability to identify, define, formulate, and solve complex engineering problems by selecting and applying appropriate analysis and modeling methods.	2
3	The ability to design a complex system, process, device, or product under realistic constraints and conditions to meet specific requirements by applying modern design methods.	4
4	The ability to develop, select, and use modern techniques and tools necessary for engineering applications encountered as a Metallurgical and Materials Engineer; the ability to effectively use information technology.	2
5	The ability to design experiments, conduct experiments, collect data, analyze results, and interpret findings for the investigation of engineering problems.	1
6	The ability to work effectively individually, as well as within disciplinary and interdisciplinary teams.	3
7	The ability to communicate effectively in Turkish, both verbally and in writing; knowledge of at least one foreign language.	1
8	The awareness of the necessity for lifelong learning; the ability to access information, follow developments in science and technology, and continuously renew oneself.	2
9	Awareness of professional and ethical responsibility.	1
10	Knowledge about business practices such as project management, risk management, and change management; awareness of entrepreneurship, innovation, and sustainable development.	1
11	Knowledge about the universal and societal impacts of engineering applications on health, environment, and safety; awareness of the legal consequences of engineering solutions.	1
12	Awareness of quality consciousness and sustainability in material selection, product development, and production processes in engineering applications; awareness of quality control.	1
13	The ability to confidently approach problems encountered in engineering applications.	2

LECTUTER(S)			
Prepared by	Ph.D. Kerem AYBAR		
Signature(s)			

Date: 24.07.2024