



COURSE INFORMATION FORM

Course Name	Course Code
Technical Drawing I	141111009

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

Course Category (Credit)				
Basic Sciences	Engineering Sciences	Design	General Education	Social
2	1	2		

Course Language	Course Level	Course Type
Turkish	Undergraduate	Compulsory

Prerequisite(s) if any	None
Objectives of the Course	The course aims to teach how to graphically express technical information about a product design to be manufactured.
Short Course Content	This introductory course is designed to teach basic concepts and methods of the Technical Drawing to provide a strong foundation. The content of the course is basic terminology, drawing equipment, lines, symbols and their meanings, measures and scales, geometrical constructions, sizes and shapes, projections, sectioning and dimensioning.

Learning Outcomes of the Course	Contributed PO(s)	Teaching Methods *	Measuring Methods **
1 Read universally standardized technical drawing language.	2,6	1,2,6	A,D
2 Draw technical drawings per EN, ISO and ANSI standards.	4,6,10	1,2,6	A,D
3			
4			
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	<ul style="list-style-type: none"> • Technical Drawing; Bert Bielefeld, Isabella Skiba, Walter de Gruyter GmbH , 2013 • Teknik resim: temel bilgiler ve uygulamalar; Gabil Abdulla, Rashid Abdullayev, Seçkin Yayıncılık, 2012
Supporting References	<ul style="list-style-type: none"> • Teknik Resim 9 - Ders Kitabı; Güller Kurcan, Hasan Boylas, Oktay Akbal, Zeki Bozkurt, Millî Eğitim Bakanlığı Yayınları, 2020 • Teknik Resim 10 - Ders Kitabı; Fazile Tosun, Nizam Turan, Seher Koçer, Millî Eğitim Bakanlığı Yayınları, 2020 • Geometrik Çizimler, Makine Teknolojisi, MEGEP, Ankara 2007 • Görünüş Çıkarma, Makine Teknolojisi, MEGEP, Ankara 2007 • Kroki, Perspektif ve Yapım Resmi, Makine Teknolojisi, MEGEP, Ankara 2007 • Ölçülendirme ve Yüzey İşlemleri, Makine Teknolojisi, MEGEP, Ankara 2007
Necessary Course Material	Drawing board, Paper, T-square, Squares, Stencils, Compasses, Ruler, Drawing pencils, Eraser, Tape

Course Schedule	
1	General information on standards (EN, ISO, ANSI). Introduction to drawing equipment and their use
2	Line types and their meanings
3	Projections
4	View drawing
5	Types of views and determining number of views
6	Auxiliary view
7	Custom views
8	Mid-Term Exam
9	Sections and sectioning rules
10	Types of Section Views
11	General Principles of Dimensioning and Scales
12	Dimension lines, numbers, marks and symbols
13	Types of dimensioning systems
14	Types of parallel perspectives and drawing application
15	Types of angular perspectives and drawing application
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,...)			
Homework	12	4	48
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)			
Participation (Preparation)			
Mid-Term Exam	1	4	4
Studying for Mid-Term Exam			
Final Exam	1	4	4
Studying for Final Exam			

Total workload	112
Total workload / 30	3,73
Course ECTS Credit	4

Evaluation	
Activity Type	%
Mid-term	40
Final Exam	60
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	Within cultural, historical and artistic contexts the ability to integrate theoretical knowledge about production and consumption mechanisms into the design practice	
2	The ability to plan the design process, to choose and use appropriate methods and techniques	3
3	The ability to identify design problems and related sub-problems and to produce creative solutions with a critical and dialectical approach	
4	The ability to design in terms of spatial thinking using design principles and elements	3
5	The ability to make applications in the interaction of aesthetics and function using design elements and means and to evaluate these applications	
6	The ability to visualize and present using two and three dimensional design tools	5
7	The ability to follow and apply technological developments, current design approaches, sustainable production methods, materials and innovations in the field of informatics in design projects	
8	The ability to use field knowledge in industrial design projects by considering the needs and interests of the society and target users within the scope of environmental awareness, professional ethics and the laws	
9	The ability to carry out the design process effectively individually or in a team	
10	The ability to take an active role in discipline-specific or interdisciplinary studies at the national and international levels;	3

LECTUTER(S)			
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Signature(s)			

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