



COURSE INFORMATION FORM

Course Name	Course Code
Computer Aided Drawing	151912196

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

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

Course Language	Course Level	Course Type
Turkish	Undergraduate	Elective

Prerequisite(s) if any	
Objectives of the Course	Learning and gaining ability for using digital design software at computer to make 2D and 3D drawings and designs.
Short Course Content	Knowledge about computer aided drawings softwares, using computer for project design and applications, learning basic instructions and making 2D drawings with using these instructions, gaining knowledge and ability to make 3D drawings.

Learning Outcomes of the Course	Contributed PO(s)	Teaching Methods *	Measuring Methods **
1 Using the CAD softwares	3, 4,5, 6, 8	1,4,6,11	A,C,D,K
2 The transferring of drawings of projects to the computer	3, 4,5, 6, 8	1,4,6,11	A,C,D,K
3 Desinging using CAD softwares and creating presentation files of projects	3, 4,5, 6, 8	1,4,6,11	A,C,D,K
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	Bora,H. Şen İ.Z., Bilgisayar Destekli Çizim ve Tasarım DE-HA, İstanbul,
Supporting References	Şen, İ.Z., Teknik Resim – Temel Bilgiler, DE-HA, İstanbul, 2002
Necessary Course Material	Computer Lab, CAD software

Course Schedule	
1	Fundamentals of Computer Aided Drawing, Introduction to CAD
2	Presentation of drawing display (interface), Presentation of status bar and applications
3	Presentation of drawing instructions
4	Presentation of drawing instructions
5	Presentation of drawing instructions
6	Presentation of drawing instructions
7	Presentation of editing instructions
8	Mid-Term Exam
9	Presentation of editing instructions
10	Presentation of options of object status bar
11	Properties of layers and setting, Techniques for scaling
12	Converting files and drawings from different formats to CAD
13	Presentation of plot and export properties
14	Printing
15	
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	28
Homework			
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	1	1
Studying for Mid-Term Exam	1	10	10
Final Exam	1	1	1
Studying for Final Exam	1	20	20
Total workload			116
Total workload / 30			3,87
Course ECTS Credit			4

Evaluation	
Activity Type	%
Mid-term	30
Quiz	30
Homework	
Bir öge seçin.	
Bir öge seçin.	40
Final Exam	
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.	3
2	The ability to identify, define, formulate, and solve complex engineering problems by selecting and applying appropriate analysis and modeling methods.	3
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.	5
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.	5
5	The ability to design experiments, conduct experiments, collect data, analyze results, and interpret findings for the investigation of engineering problems.	2
6	The ability to work effectively individually, as well as within disciplinary and interdisciplinary teams.	4
7	The ability to communicate effectively in Turkish, both verbally and in writing; knowledge of at least one foreign language.	4
8	The awareness of the necessity for lifelong learning; the ability to access information, follow developments in science and technology, and continuously renew oneself.	5
9	Awareness of professional and ethical responsibility.	3
10	Knowledge about business practices such as project management, risk management, and change management; awareness of entrepreneurship, innovation, and sustainable development.	4
11	Knowledge about the universal and societal impacts of engineering applications on health, environment, and safety; awareness of the legal consequences of engineering solutions.	3
12	Awareness of quality consciousness and sustainability in material selection, product development, and production processes in engineering applications; awareness of quality control.	4
13	The ability to confidently approach problems encountered in engineering applications.	4

LECTUTER(S)				
Prepared by	İbrahim Çelikyürek			
Signature(s)				

Date:06.06.2024