ESOGÜ Electrical Engineering Department



COURSE CODE: 151222126- 151242126 COURSE TITLE: Engineering Graphics

Semester	Weekl	y Hours	lours			COURSE			
	Theoretical Practical Credits E		CTS	Туре		Language			
2	1	2	2		1	Compulsory ((x) Turkish		ish ()
L	1	2	2	2 4		Elective ()		English (x)	
Wr	ite the credit (for non-	credit courses weekly	edit courses weekly hours) below (If necessary distribute the credits.).						
Math and Basic Science		Electrical	Electrical Engineering		General]	Humanities	
2					Eu	Euucation			
Assessment		THEORETICA	THEORETICAL-PRACTICAL				DV /	COUD	TE
		COU	COURSES			LABORATORY COURSES			
		Type	Number	%	Activ	ity Type	Nu	imber	%
		Midterm	1	30	Quiz	C	-		
Midterm		Quiz Homework	3	30	Lab p	eriormance	-		
		Project			Oral	evam	_		
		Other ()			Other	· ()			
Final			1	40		()			
Makeup exam (Oral/Written)		Written							
Prerequisites	· · · ·	None	None						
Brief content of the course		Technical drawing	Technical drawing, computer aided drawing and design.						
Objectives of the course		The aim of the course is to teach students basic structures about computer- aided design and drawings, to draw two and three dimensional projects in computer environment with using AutoCAD program.							
Contribution of the course towards professional education		Apply primary tec application, visua multiview and p efficiently for 2-c techniques as a to problem solving.	Apply primary techniques in engineering drafting practices and CAD software application, visualize objects from multiview drawings, sketch objects in multiview and pictorial views. Using AutoCAD or other CAD software efficiently for 2-dimensional, 3-dimensional drawings, use pictorial drafting techniques as a tool for communication, visualization, critical thinking, and problem solving.						
Outcomes of	the course	 To understand basics of technical drawing. To know standards about technical drawing. To create technical drawings by using AutoCAD. Modeling. To develop technical drawing project. 							
Textbook of the courseOmura G., "Herkes için AutoCAD 2007 ve AutoCA9752978461			atoCAD LT 2	2007	", 2007,	, ISBN:			
Other referen	ice books								
Required mat	terial for the course	Computer, project	or.						

WEEKLY PLA	N OF THE	COURSE
		COURSE

Week	Topics			
1	Multiview sketching.			
2	Orthogonal, sectional, and auxiliary views			
3	Projections			
4	Assembly drawings			
5	Drawings standards, dimensioning, tolerancing and fits			
6	What is Computer-Aided Design (CAD)?			
7	Properties of CAD programs			
8	Midterm			
9	Midterm			
10	Running AutoCAD, AutoCAD screen, entire window			
11	Toolbars, Zoom operations, AutoCAD commands, coordinates			
12	Layer operations, making layers, adding objects to layers, general controls of layers.			
13	Dimensioning, Text operations, Block operations.			
14	Three-dimensional modeling, wire-frame modeling, surface modeling, solid modeling.			
15,16	Final			

NO	OUTCOMES OF THE PROGRAMME	4	3	2	1
1	Adequate knowledge of mathematics, science and Computer Engineering; ability to practice theoretical and practical knowledge of these areas into modeling and solving problems of Computer Engineering		X		
2	Ability to identify complex engineering problems in Computer Engineering and related fields, for this purpose having skills to formulate, select and apply appropriate methods.				X
3	Having skills to apply modern design methods to design a complex system, equipment or product that should work under realistic conditions and constraints and satisfy specific requirements concerning the Computer Engineering.		X		
4	Having skills to develop, select and apply modern techniques and tools needed for Engineering applications, skills to use information technology effectively.		Χ		
5	Skills to design and conduct tests, collect data, analyze results, and interpret data for the experimental investigation of Computer Engineering problems				X
6	Ability to function effectively as an individual and as a member of teams within the discipline and in multidiscipline areas.				X
7	Communicating effectively in oral and written form in Turkish and one foreign language.				X
8	Awareness of the necessity of lifelong learning, access to information, monitoring developments in science and technology and the ability to self-renewing				X
9	Understanding of professional and ethical responsibility				Χ
10	Information on project management, change management and risk management practices, awareness on entrepreneurship, innovation and sustainable development.				X
11	Information about universal and societal effects of engineering applications on health, safety and environment; awareness of the legal consequences of engineering solutions.				X

Scale for assessing the contribution of the course to the program outcomes:

4: High 3: Medium 2: Low 1:None

Name of Instructor(s): Yıldıray ANAGÜN

Signature(s):

Date: