Akdeniz University

F. Course Description

Course Name	Computer Aided Drawing and Design				
Course Language	Turkish				
Course Level	Associate Degree (x)	First Cycle (x)	Second Cycle ( )	Third Cycle ( )	
Mode of Delivery					
Formal (x)	Distance Learning (x)		Others (x)		

Course Type		**Course Unit Code**	**Course Code**
Required ( )	Elective (x)	ENF	114

Theory (Hours)	**Application (Hours)**	**Total**	**Semester**	**National Credits**	**ECTS**
2	0	2	Fall / Spring/Summer	2	4

Course Objectives	This course aims to draw and design by using computer aided design program, draw perspective views and 2-D and 3-D object drawings.
Course Content	Drawing and designing by using computer aided design program, drawing 2-D and 3-D perspective views.
Pre-requisites	
Recommended Elective Courses	
Course Learning Outcomes	Students should be able to: 1. Understand basic CAD concepts and CAD program, 2. Draw principles of scaling at 2-D drawings and measure on drawing by using CAD commands 3. Set of printer settings and output from printer 4. Understand basic concepts of 3-D drawings and design 3-D surfaces.
Course Coordinator	Instructor Ramazan UYAR
Course Lecturer(s)	Department Academic Members
Course Assistants	

Teaching Methods		
(x) Oral Presentation	( ) Case Study	(x) Computer assisted
( ) Discussion	( ) Drama	(x) Laboratory
(x) Problem Solving	( ) Invention	(x) Demostration-Moviations
( ) Experiment	(x) Project	( ) ……

Course Notes / Textbooks	1. BERTOLINE,J.,Graphichs For Engineers ,Adion-Wesley Publishing Company ,U.S.A 2004 2. ÖZDAŞ ,M GEDİKTAŞ ,M Teknik Resim , Çağlayan Kitabevi, İstanbul, 1995

Evaluation System		
(x) Direct Conversion System		( ) Relative Assessment

	Requirements	**Number**	**Percentage of Grade**
Mesarument and Evaluation System	Attendance	15	10 %
	Quizzes	0	
	Midterm Exam(s)	0	25 %
	Homework(s) / Seminar(s)	3	
	Term Assignment(s) / Project	1	15 %
	Application (Laboratory, Atelier , Field Work, Problem Based Learning- PBL Reports)	0	
	Others (……)	0	
	Final Exam	1	50 %
	Total	**20**	**100 %**

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Distribution of Topics By Weeks		
Weeks	**Topics**	**Preparatory Work**
1	Basic CAD Concepts	Installation of CAD software
2	Basic CAD Commands	
3	Basic Drawing Commands	
4	Scaling	
5	Scaling	
6	Perspective Drawings	
7	Blocks and Importing Drawings	
8	*Midterm*	
9	Isometric Drawings and Working 3-D Plane	
10	3-D Surface Modeling	
11	Editing Commands of 3-D Drawings	
12	3-D Drawing and Designing	
13	3-D Drawing and Designing	
14	Creating 3-D Perspectives	
15	Output Drawings	Setting printer

	Course Learning Outcomes*									
Program Outcomes	LO1	LO2	LO3	LO4	LO5	LO6	LO7	LO8	LO9	LO10
PO 01- A basic, theoretical and practical knowledge about basic information technologies.	5	4	5	3						
PO 02- Information about design and development of hardware and software solutions.			3	2						
PO 03- Constructing and implementing identified problems and models at using use of information technology and applying of basic solution suggestions.	3	5	2							
PO 04- Developing software specifications defined which components.			4							
PO 05- Following current developments of information and communication technologies by awareness of lifelong learning necessity.	3	3	2	3						
PO 06- Communicating by published and visual materials developed information and communication technologies.		2		4						
PO 07- Having algorithmic though and using planning approach on their applications.		3								
PO 08- Carrying professional and ethical responsibility having professional ethics awareness about IT applications. Taking necessary cautions about information security	2									

* 1: Low 2: Lowest 3: Average 4: High 5: Highest

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ECTS of the Course Based on Learning, Teaching and Evaluation Activities (Average Hours)				
Activities	**Number**	**Preparatory Work**	**Duration**	**Total Workload**
Theory	15	0	2	28
Applied Course	15	0	7,125	99,75
Homework(s) / Seminar(s)	0,458333	0	0,541666667	0,248263889
Term Assignment / Project	0,208333	0	0,166666667	0,034722222
Application (Laboratory, Atelier, Field, Problem Based Learning - PBL)	0,291667	0	0,541666667	0,157986111
Other Learning Activities	0,708333	0	0,541666667	0,383680556
Quizzes	0,791667	0	0,416666667	0,329861111
Midterm Exam(s)	1	0	1,333333333	1,333333333
Final Exam	1	0	1,25	1,25
Other Works	15	0	0,833333333	11,66666667
			Total Workload (Hours)	143,1545139
			Rounding [Total Workload (hours) / Weekly Workload (30)] = ECTS	4,77181713