Course Unit Title	Computer Aided Drawing	Computer Aided Drawing		
Course Unit Code	ENG103			
Type of Course Unit		Compulsory, engineering students		
Level of Course Unit		BSc		
National Credits		3		
Number of ECTS Credits Allocated		6 ECTS		
Theoretical (hour/week)	2	2		
Practice (hour/week)	-			
Laboratory (hour/week)	2			
Year of Study	1			
Semester when the course unit is delivered 1				
Course Coordinator İbrahim Erşan				
Name of Lecturer (s) İbrahim Erşan, Murat Özdenefe				
	Name of Assistant (s) -			
Mode of DeliveryFace to Face, Laboratory Experiments, WebLanguage of InstructionEnglish				
Prerequisities and co-requisities	-			
Recommended Optional Programme Compo				
Objectives of the Course				
 Draw geometric shapes in space To introduce students various forms of g Usage of a drawing applications (AutoCA 				
 Gain ability to draw any dimensioned fig 				
Learning Outcomes	uic			
When this course has been completed the student should be able to		Assesment		
1 Have a clear understanding about drawing techniques in 2D		1		
2 Know and use basic drawing commands		1,5		
2 Know and use basic drawing commands	Know and use basic modifier commands			
	S	1,5		

Course's Contribution to Program

		CL		
1	Ability to understand and apply knowledge of mathematics, science, and engineering	2		
2	Ability to design and conduct experiments as well as to analyze and interpret data			
3	3 Ability to work in multidisciplinary teams while exhibiting professional responsibility and ethical conduct			
4	Ability to apply systems thinking in problem solving and system design	4		
5	Knowledge of contemporary issues while continuing to engage in lifelong learning			
6	Ability to use the techniques, skills and modern engineering tools necessary for engineering practice	3		
7	7 Ability to express their ideas and findings, in written and oral form			
8	8 Ability to design and integrate systems, components or processes to meet desired needs within realistic constraints			
9	Ability to approach engineering problems and effects of their possible solutions within a well structured, ethically responsible and professional manner			
	CL (Contribution Level): 1. Very Low, 2. Low, 3. Moderate, 4. High, 5. Very High			

Course Contents				
Week		Exams		
1	Introduction about drawing application environment			
2	Line tool command, Drafting settings			
3	Circle tool command, Coordinate system			
4	Polygon, Donut, Boundary and Hatch tool commands			
5	Rectangle, point, divide, measure and object snap			
6	Arc and Helix			
7	Polyline and Text entry			
8		Midterm		
9	Move, copy, fillet, chamfer, explode and align			
10	Rotate and Mirror modifier			
11	Block, Insert, Purge commands			
12	Stretch, scale, trim and extent modifiers			
13	Offset and Array modifier			
14	Layers in drawing			
15		Final		

Recommended Sources

Textbook:

Discovering AutoCAD2013, M.Dix, P.Riley, Pearson, 2013, ISBN: 978-0-13-295856-1

Supplementary Material(s):

- 1) Introduction to AutoCAD 2010 2D & 3D Design, A. Yarwood, Elsevier, 2009
- 2) AutoCAD 2010 and AutoCAD LT 2010: No Experience Required, J.McFarland, Sybex, 2009

Assessment

Attendance	10%	
Homeworks	10%	
Laboratory	10%	Lab Grade= Lab Performance × Lab Attendance
Midterm Exam	30%	
Final Exam	40%	
Total	100%	

ECTS Allocated Based on the Student Workload

Activities	Number	Duration (hour)	Total Workload(hour)
Course duration in class (including the Exam week)	13	2	26
Labs and Tutorials	13	2	26
Assignments	5	5	25
E-Learning Activities	-	-	-
Project/Presentation/Report Writing	-	-	-
Quizzes	-	-	-
Lab Exams	-	-	-
Midterm Examination	1	18	18
Final Examination	1	18	18
Self Study	13	4	52
Total Workload	165		
Total Workload/30 (h)	5.5		
ECTS Credit of the Course	6		