COMPUTER AIDED DRAWING I								
1	Course Title:	COMPUTER AIDED DRAWING I						
2	Course Code:	MKNZ108						
3	Type of Course:	Compulsory						
4	Level of Course:	Short Cycle						
5	Year of Study:	1						
6	Semester:	2						
7	ECTS Credits Allocated:	4.00						
8	Theoretical (hour/week):	3.00						
9	Practice (hour/week):	0.00						
10	Laboratory (hour/week):	1						
11	Prerequisites:	Basic technical drawing, machine drawing and skill of using computer .						
12	Language:	Turkish						
13	Mode of Delivery:	Face to face						
14	Course Coordinator:	Öğr.Gör. ZAFER YILDIZ						
15	Course Lecturers:	Doç.Dr. Yahya IŞIK,Öğr.Gör. Zafer YILDIZ						
16	Contact information of the Course Coordinator:	yildizzfr@uludag.edu.tr						
17	Website:							
18	Objective of the Course:	Be able to dimension by drawing 2D (two dimensional) mechanical drawings and assembly drawings using CAD program, to use ready to use forms-objects to design 3D (three dimensional) modelling on the CAD program, to print.						
19	Contribution of the Course to Professional Development:							
20	Learning Outcomes:							
		1	Be able to establish CAD program.					
		2	Be able to use CAD program and record files for CAM –CNC machine tools.					
		3	Create shapes using CAD commands					
		4	Be able to draw 2D engineering drawings and assembly drawings on CAD program.					
		5	Be able to dimension 2D engineering drawings and assembly drawings on CAD program.					
		6	Be able to insert ready-made shapes and symbols on 2D engineering drawings and assembly drawings on CAD program.					
		7	Be able to print-plot of the drawings on CAD program					
		8	Be able to make 3D modeling and surface modeling on CAD program.					
		9	Be able to make material designation and render 3D drawings on CAD program.					
		<b>10</b> Be able to make the calculations of the area-volume centroid on CAD program.						
21	Course Content:							
		Co	ourse Content:					
Week	Theoretical		Practice					

1	The concept and the advantages of C The introduction and use of CAD pro screen and interface, saving of CAD	CAD, gram files.	The use of CAD program							
2	Settings of screen, linetype, layer,toolbox,,coordinate systems on CAM.	CAD-	Creating a layer, making measured drawing							
3	Draw commands (line,multilne,spline,pline,rectangle,po ipse,circle,arc, divide,measure,donut,region,hatch).	olygon,ell	Measured drawing applications using draw commands.							
4	Text ,Text style,text edit commands.		Measured drawing applications using draw commands.							
5	Modify -editing commands (properties,erase,copy,explode,mirro ffset, move scale,array,trim,extend,fillet,chamfer, ecth).	r,rotate,o break,str	Measured drawing applications using draw- modify commands.							
6	Dimension commands and dimension the drawing, 2D( two-dimensional) dr applications.	ning on awing	Measured drawing applications using draw- modify- dimension commands.							
7	Print-plot commands and plotting, be use blocks, creating blocks and to in blocks on the drawing.	e able to nsert	Drawing machine parts ,dimensioning, inserting surface finish –shape and position tolerance and print –plotting applications							
8	Repetition of the course		Repetition of the course and practice exam on the computer and CAD program.							
9	Analysis commands (id point,list,dist,	area,	Measuring using analysis commands area measurement							
Activit	es			Number	Duration (hour)	Total Work Load (hour)				
Theore	ticanhmands.			14	3.00	42.00				
Practica	als/Labs			14	1.00	14.00				
Self stu	enangesrenessing county and the	operation		10	2.00	20.00				
Homew	vorks			1	20.00	20.00				
Project	Invaterial assignment to solids models	,	IV ai	aterial to solid models	assignment and re	defing				
Field St	tudies			0	0.00	0.00				
Midtern	selidmodeling.			1	10.00	10.00				
Others				0	0.00	0.00				
Final E	xams			1	15.00	15.00				
Total W	/ork Load					121.00				
Total w	ork load/ 30 hr		C	AD programs.		4.03				
ECTS (	Credit of the Course					4.00				
			Students will practice on the computer and CAD program.							
23	Assesment									
TERM L	EARNING ACTIVITIES	NUMBE R	W	EIGHT						
Midterm Exam 1				30.00						
Quiz 0				0.00						
Home v	work-project	1	10.00							
Final E	xam	1	60.00							
Total		3	100.00							
Contrib Succes	ution of Term (Year) Learning Activitie s Grade	es to	40.00							

Contribution of Final Exam to Success Grade	60.00
Total	100.00
Measurement and Evaluation Techniques Used in the Course	

## 24 ECTS / WORK LOAD TABLE

25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16
ÖK1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK2	5	0	5	0	0	0	0	3	0	0	0	0	0	0	0	0
ÖK3	5	0	5	0	0	0	0	3	0	0	0	0	0	0	0	0
ÖK4	5	0	0	0	0	0	0	3	0	3	0	2	0	0	0	0
ÖK5	5	0	0	0	0	0	0	3	0	3	0	2	0	0	0	0
ÖK6	5	0	0	0	0	0	0	3	0	0	0	2	0	0	0	0
ÖK7	5	0	0	0	0	0	0	0	0	3	0	2	0	0	0	0
ÖK8	5	0	4	0	0	0	0	3	0	0	0	2	0	0	0	0
ÖK9	5	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0
ÖK10	5	0	0	0	0	0	3	3	0	0	0	2	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib ution Level:	Contrib 1 very low 2 low ution Level:				3 Medium			4 High			5 Very High					