COMPUTER AIDED DRAWING

1	Course Title:	COMPUTER AIDED DRAWING
2	Course Code:	MKRZ108
3	Type of Course:	Compulsory
4	Level of Course:	Short Cycle
5	Year of Study:	1
6	Semester:	2
7	ECTS Credits Allocated:	5.00
8	Theoretical (hour/week):	2.00
9	Practice (hour/week):	0.00
10	Laboratory (hour/week):	2
11	Prerequisites:	
12	Language:	Turkish
13	Mode of Delivery:	Face to face
14	Course Coordinator:	Öğr.Gör. ÖMER NURİ ÇAM
15	Course Lecturers:	ÖĞR. GÖR. ÖMER NURİ ÇAM
16	Contact information of the Course Coordinator:	onc@uludag.edu.tr
17	Website:	
18	Objective of the Course:	Basic CAD and AutoCAD'a Introduction, 2 and 3 dimensional drawings done with the basic AutoCAD commands
19	Contribution of the Course to Professional Development:	
20	Learning Outcomes:	

	1	To have basic knowledge of Cad-Cam
	2	Be able to draw using theoretical and experimental methods.
	3	Drawing be able to produce solutions for the problems of producers and industrialists.
	4	Two-dimensional skills to be able to draw all kinds of
	5	Three-dimensional skills to be able to draw all kinds of
	6	To have knowledge of basic AutoCAD.
	7	Modern and contemporary issues and gain the ability to learn.
	8	
	9	
	10	

21	Course Content:	
	Course Content:	
Week	Theoretical	Practice

1	The concept and the advantages of CAD, The introduction and use of CAD program screen and interface, saving of CAD files.	The use of CAD program
2	Settings of screen, linetype, layer,toolbox,,coordinate systems on CAD-CAM.	Creating a layer, making measured drawing
3	Draw commands (line,multilne,spline,pline,rectangle,polygon,ellipse,circle,arc, divide,measure,donut,region,hatch).	Measured drawing applications using draw commands.
4	Text ,Text style,text edit commands.	Measured drawing applications using draw commands.
5	Dimension commands and dimensioning on the drawing, 2D(two-dimensional) drawing applications.	Measured drawing applications using draw- modify-dimension commands.
6	Print-plot commands and plotting, be able to use blocks, creating blocks and to insert blocks on the drawing.	Drawing machine parts ,dimensioning, inserting surface finish –shape and position tolerance and print –plotting applications
7	Repetition of the course and MidTerm Exam	-
8	The importance of 3D three-dimensional design on CAD and introduction of 3D commands.	3D (three-dimensional) drawing applications.
9	Solid model design using modelling commands; creating, editing and making changes on solid models using 3D operation and Solid editing.	3D (three-dimensional) drawing applications.
10	Assembly file creation and commands used to build assembly	Parts merge and association on the assembly file applications
11	Ready standard parts place over the part	Parts merge , association,Collision detection and the simulation of tests done of assembly mechanism is made
12	Preparation of 3D (three-dimensional) assembly drawings of a mechanism is made	Creating technical drawings from assembled applications
13	Midterm exams	-
14	Parts modeling of a simple mechanism, applications.	Parts modeling of a simple mechanism, Creating technical
15	Final Exams	-
16	Materials	2004 De-Ha Publishing,2005
		Application Examples De-Ha Publishing,2005 Lecturer notes Inventor web help pages
23	Assesment	

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	2.00	28.00
Practicals/Labs	14	2.00	28.00
Self study and preperation	14	3.00	42.00
Homeworks	0	0.00	0.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	1	17.00	17.00
Others	0	0.00	0.00
Final Exams	1	17.00	17.00
Total Work Load			166.00
Total work load/ 30 hr			4.97
ECTS Credit of the Course			5.00

TERM LEARNING ACTIVITIES	NUMBER	WEIGHT
Midterm Exam	1	40.00
Quiz	0	0.00
Home work-project	0	0.00
Final Exam	1	60.00
Total	2	100.00

Contribution of Term (Year) Learning Activities to Success Grade	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	PQ10	PQ11	PQ12	PQ13	PQ14	PQ15	PQ16
ÖK1	1	1	1	2	4	4	4	1	2	2	4	0	0	0	0	0
ÖK2	1	1	1	2	4	4	4	1	2	2	4	0	0	0	0	0
ÖK3	1	1	1	2	4	4	4	1	2	2	4	0	0	0	0	0
ÖK4	1	1	1	2	4	4	4	2	2	2	4	0	0	0	0	0
ÖK5	1	1	1	2	4	4	4	2	2	2	4	0	0	0	0	0
ÖK6	2	1	2	2	3	4	4	2	1	2	3	0	0	0	0	0
ÖK7	4	4	4	4	4	4	4	4	4	4	4	0	0	0	0	0

LO: Learning Objectives PQ: Program Qualifications

Contribution Level:	1 very low	2 low	3 Medium	4 High	5 Very High