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. Dr. ÖMER NURİ ÇAM
15	Course Lecturers:	Meslek Yüksekokulları Yönetim Kurullarının görevlendirdiği öğretim elemanları.
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:	To develop in CAD and CAE subjects.
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	
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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.

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	4.00	56.00
Homeworks	0	0.00	0.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	1	20.00	20.00
Others	0	0.00	0.00
Final Exams	1	20.00	20.00
Total Work Load			152.00
Total work load/30			5.07
ECTS Credit of the Course			5.00

Overlapping weekly rows:

Week	Theoretical	Practice
11	angular motion relations on the assembly . Make to changes on the assembly file and	applications
12	Ready-standard parts place over the assembly. Collision detection and the mechanism is made .	Parts merge , association Collision detection and the simulation on the assembly file applications
13	Arrangement of 2D (two dimensional) assembled , numbering, partlist editing, Creating exploded 3D assembly drawings	Creating technical drawing of a mechanism is assembled
14	Creating technical and assembly drawing applications	and assembly drawing applications.

| | Textbook, References and/or Other Materials | • Zeki Şen.İ,Bora H, Computer Aided Drawing-A.CAD 2004 De-Ha Publishing,2005

• Zeki Şen.İ,Bora H.Bilgisayar Destekli Çizim-A.CAD Application Examples De-Ha Publishing,2005

Lecturer notes

Inventor web help pages |

| 23 | Assesment |

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	Measurement and evaluation is carried out according to the priciples of Bursa uludag University Associate and Undergraduate Education Regulation.

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