AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title		Computer Aided Design						
Course Code		MRS182		Couse Level		Short Cycle (Associate's Degree)		
ECTS Credit	3	Workload	75 *(Hours)*	Theory	2	Practice	2	Laboratory	0
Objectives of the Course		With this course students; It is aimed at teaching the computer-aided three-dimensional drawing and installation to qualification.						
Course Content		The draft draw and edit 3D sketch, create a solid model, surface modeling, 3D assembly drawings from solid models to achieve, create image made from solid models, animation and presentation,						
Work Placement		N/A						
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Demonstration, Discussion, Individual Study				
Name of Lecturer(s)		Ins. Ahmet Özcan GÜL						

Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	70

Recommended or Required Reading

1	AutoCAD Lesson Book

Week	Weekly Detailed Course Contents	
1	Theoretical	The draft draw and edit,
2	Theoretical	3D drafting
3	Theoretical	Create a solid model-1
4	Theoretical	Create a solid model-1
5	Theoretical	Create a solid model-2
6	Theoretical	Create a solid model-2
7	Theoretical	Surface modeling
8	Theoretical	3D assembly
9	Intermediate Exam	MIDTERM
10	Theoretical	3D assembly
11	Theoretical	3D assembly
12	Theoretical	Animation and presentation
13	Theoretical	Get drawings from solid models
14	Practice	Get drawings from solid models
15	Practice	Get the picture made from solid models
16	Final Exam	FINAL EXAM

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Lecture - Practice	14	0	2	28
Assignment	1	0	7	7
Midterm Examination	1	5	1	6
Final Examination	1	5	1	6
			Total Workload (Hours)	75
			[Total Workload (Hours) / 25*] = **ECTS**	3

25 hour workload is accepted as 1 ECTS

Learning Outcomes

1	Draws a draft.

2	Creates a three-dimensional model.
3	Creates technical drawing.
4	Computer-aided 3D drawings and assembly
5	Gives motion to systems.

Programme Outcomes *(Machinery)*

1	To be able to know general properties and usage areas of industrial materials and make selection.
2	Design of machine elements.
3	To be able to make production using machining and welding machines without machining.
4	To be able to make measurement and quality control processes with machine tools for measuring and control equipment.
5	To be able to make necessary corrections in order to determine the mistakes by using the necessary non-destructive test methods in welded parts and to eliminate these mistakes.
6	Preventive measures to prevent the occurrence of these faults by preliminarily determining the faults that will occur in the machines as statistical data and to make necessary interventions in case of breakdown.
7	They can make drawings of work pieces on CAD station and apply them on CNC looms. Ability to operate and use CAD / CAM and AUTOCAD package programs.
8	To be able to transfer engineering science and technology to practice by making calculations in the direction of scientific principles.
9	It can repair the elements in pneumatic and hydraulic systems which are indispensable elements of automatic control systems and can regulate their work.
10	The student who is trained as a machine technician during the whole program knows that industrial task definition in the field of work is error finding, problem solving, decision making, planning of functions and activities and they can be achieved by aiming to acquire these characteristics.

Contribution of Learning Outcomes to Programme Outcomes *1:Very Low, 2:Low, 3:Medium, 4:High, 5:Very High*

	L4
P1	4
P2	5
P3	2
P4	5
P5	4
P6	3
P7	5
P8	5
P9	3
P10	5