



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Computer Assisted Design							
Course Code		AET106		Course Level		Short Cycle (Associate's Degree)			
ECTS Credit	4	Workload	99 (Hours)	Theory	1	Practice	1	Laboratory	0
Objectives of the Course		With this course it is aimed to equip students with competencies of computer assisted two dimensional and three dimensional drawings.							
Course Content		Entering Initial drawing settings, drawing commands/coordinates, geometric shapes, entering editing commands, drawing installment parts, changing layer features, changing item features, calibrating drawings, adding writings to the drawings, changing user coordination system, adjusting screen parts, making isometric drawing, modeling surface, concrete modeling.							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Demonstration, Individual Study					
Name of Lecturer(s)		Lec. Ahmet Cumhur ÖZTÜRK, Lec. Erman AYDIN							

Assessment Methods and Criteria

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

Recommended or Required Reading

1	Fundamentals of Computer Aided Design and Applications-Sait M. Say, Mustafa Şehri
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Week	Weekly Detailed Course Contents	
1	Theoretical	Entering Initial drawing settings
2	Theoretical	drawing commands/coordinates
3	Theoretical	geometric shapes
4	Theoretical	entering editing commands
5	Theoretical	drawing installment parts
6	Theoretical	changing layer features
7	Theoretical	changing item features
8	Theoretical	calibrating drawings
9	Theoretical	adding writings to the drawings
10	Theoretical	changing user coordination system
11	Theoretical	adjusting screen parts
12	Theoretical	making isometric drawing
13	Theoretical	modeling surface
14	Theoretical	concrete modeling.

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	1	1	28
Lecture - Practice	14	0	1	14
Assignment	7	3	0	21
Term Project	1	14	0	14
Midterm Examination	1	10	1	11
Final Examination	1	10	1	11
Total Workload (Hours)				99
[Total Workload (Hours) / 25*] = ECTS				4

*25 hour workload is accepted as 1 ECTS

Learning Outcomes

1	Making computer assisted drawing
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2	Editing drawing
3	Editing layer and item features
4	Adjusting coordination system and screen view
5	Making three dimensional drawing

Programme Outcomes (Mechatronics)

1	TECHNICAL FOREIGN LANGUAGE
2	BASICS OF MECHATRONICS
3	TECHNICAL DRAWING
4	DOING BASIC MECHANIC PROSESES
5	CHOOSE THE MATERIALS
6	DOING MECHANICAL SYSTEM DESIGN
7	SET UP A HYDRAULIC OR PNEUMATIC SYSTEMS
8	DOING COMPUTER AIDED MECHANICAL DESIGN
9	USING FLEXIBLE PRODUCING SYSTEMS
10	USING COMPUTER AIDED MACHINE TOOLS
11	DOING ELECTRICAL AND ELECTRONICAL
12	SET UP ELECTRICAL AND ELECTRONICAL CIRCUITS
13	SET UP LOGICAL CIRCUITS
14	DOING COMPUTER AIDED ELECTRONICAL CIRCUITS DESIGN
15	SET UP ELECTRICAL MOTORS
16	SET UP MICROCONTROLLER CIRCUITS
17	SET UP CONTROL SYSTEMS
18	COMMUNICATE CONTROL SYSTEMS
19	DOING INDUSTRIAL ROBOTIC PROGRAMMING AND MAINTENANCE
20	WRITING COMPUTER PROGRAMME
21	Ability to use the methods and techniques of career planning and discussing the effects of character traits on career preferences.
22	Ability to plan a career in their own profession.

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

	L1	L2	L3	L4	L5
P1	5	3	3	3	2
P2	2	2	4	1	3
P3	5	4	5	2	4
P4	2	1	2	3	5
P5	1	3	3	5	1
P6	3	4	5	2	1
P7	1	5	4	1	2
P8	1	2	1	3	3
P9	2	3	2	4	3
P10	4	1	3	2	3
P11	3	2	5	2	1
P12	2	4	3	3	4
P13	4	3	4	1	3
P14	3	2	2	2	5
P15	2	3	1	3	2
P16	3	2	3	2	3
P17	1	4	1	3	3
P18	2	2	4	2	3
P19	1	3	3	4	2
P20	2	1	2	2	1

