AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title		Computer Aided Circiut Design					
Course Code		MTR203		Couse Level	Short Cycle (Associate's Degree)		
ECTS Credit	3	Workload	75 *(Hours)*	Theory	2	Practice	0	Laboratory	0
Objectives of the Course		Student, computer with schematic-print the drawing of the circuits and printed circuit board production					
Course Content		Program Menus, Circuit Drawing, Program Menus Manual Printing Circuit Drawing, Printing Circuit Preparation					
Work Placement		N/A					
Planned Learning Activities and Teaching Methods			Explanation (Presentation), Demonstration				
Name of Lecturer(s)		Ins. İsmail MERSİNKAYA					

Assessment Methods and Criteria

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

Recommended or Required Reading

1	1. Bilgisayarla Devre Analizi-Mustafa YAĞIMLI, Feyzi AKAR
2	2. Ders Notları

Week	Weekly Detailed Course Contents	
1	Theoretical	Program Menus
2	Theoretical	Program menus, Circuit drawing
3	Theoretical	Circuit drawing
4	Theoretical	Circuit drawing, Circuit Analysis
5	Theoretical	Circuit analysis, Program menus
6	Theoretical	Program Menus
7	Theoretical	Program Menus, Manual Circuit Design
8	Theoretical	Manual Circuit Design
9	Theoretical	Manual Circuit Design, Automatically Printed Circuit Design
10	Theoretical	Automatically Printed Circuit Design, Prepare Printed Circuit
11	Theoretical	Prepare Printed Circuit
12	Theoretical	Exposure method
13	Theoretical	Exposure method, To make mounting
14	Theoretical	To Make Mounting

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	1	14
Lecture - Practice	14	0	1	14
Laboratory	9	2	1	27
Midterm Examination	1	9	1	10

Final Examination	1	9	1	10
			Total Workload (Hours)	75
			[Total Workload (Hours) / 25*] = **ECTS**	3
*25 hour workload is accepted as 1 ECTS				

Learning Outcomes

1	to get the general information about of CAD/CAM systems and electronic design automation (EDA) software.
2	to be able to find any device from library, to add a device to library and to edit a device.
3	to be able to prepare and print the schematic project.
4	to be able to prepare the interactive simulation project and to be able to measure voltage, current and frequency with virtual instruments.
5	to be able to prepare and interpret the graph based simulation project.

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 HYDRAULİC OR PNEUMATICSYSTEMS
8	DOING COMPUTER AIDED MECHANICAL DESİGN
9	USINGFLEXIBLE PRODUCING SYSTEMS
10	USINGCOMPUTER AIDEDMACHINE TOOLS
11	DOING ELECTRICAL AND ELECTRONICAL
12	SET UP ELECTRICAL AND ELECTRONICAL CIRCUITS
13	SET UP LOGICAL CIRCIUTS
14	DOING COMPUTER AIDED ELECTRONICAL CIRCUITSDESİGN
15	SET UP ELECTRICAL MOTORS
16	SET UP MICROCONTROLLER CIRCIUTS
17	SET UP CONTROL SYSTEMS
18	COMMUNICATE CONTROL SYSTEMS
19	DOING INDUSTRIAL ROBOTIC PROGRAMMINGAND 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
P12	5	5	5	5	5
P14	5	5	5	5	5