

#### AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Computer Aided Circiut Design		ign						
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, comp	outer with sche	ematic-	orint	the drawing	of the circuits	and printed	circuit board prod	uction
Course Content		Program Menus, Circuit Drawing, Program Menus Manual Printing Circuit Drawing, Printing Circuit Preparation				cuit				
Work Placement		N/A								
Planned Learning Activities ar		and Teaching	Methods	Explar	atio	n (Presentat	ion), Demons	tration		
Name of Lecturer(s)		Ins. İsmail ME	RSİNKAYA							

#### 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 Cou	se 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



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Final Examination	1	9	1	10
		To	otal Workload (Hours)	75
		Total Workload (	Hours) / 25*] = <b>ECTS</b>	3
*25 hour workload is accepted as 1 ECTS				

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Learning	Outcomes

Leann	ing 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 (Electrics)

1	ABILITY TO MAKE APPLICATIONS OF MEASUREMENT AND CALCULATION
2	ABILITY TO MAKE CONNECTIONS OF A DC CIRCUIT
3	ABILITY TO MAKE BASIC ELECTRONIC CIRCUIT AND APPLICATIONS
4	ABILITY TO MAKE ELECTRIC INSTALLMENT APPLICATIONS
5	ADAPTING VOCATIONAL ETHICAL VALUES
6	ABILITY TO MAKE COMMUNICATION
7	ABILITY TO MAKE CONNECTIONS OF AC CIRCUIT
8	ABILITY TO MAKE NUMERICAL CIRCUITS
9	ABILITY TO MAKE INSTALLATIONS OF TRANSFORMER AND DC ELECTRIC MACHINES
10	ABILITY TO MAKE COMPUTER AIDED DESIGN
11	ABILITY TO APPLY VOCATIONAL TECHNICAL METHODS
12	ABILITY TO MAKE INSTALLATIONS OF AC ELECTRIC MACHINES
13	ABILITY TO MAKE SPECIAL ELECTRIC INSTALLMENTS
14	ABILITY TO MAKE INSTALLMENTS OF COMMAND SYSTEMS
15	ABILITY TO DRAW COMPUTER AIDED ELECTRIC SCHEME
16	ABILITY TO MAKE POWER ELECTRONICS CIRCUITS
17	ABILITY TO MAKE SYSTEM ANALYSIS AND PRODUCT DESIGN
18	ABILITY TO IMPROVE ONESELF UTILIZING INFORMATION OPPORTUNITIES
19	ABILITY TO DRAW COMPUTER AIDED ELECTRIC INSTALLMENT PROJECT
20	ABILITY TO MAKE ANALYSIS AND MAINTENANCE OF ELECTRICAL ENERGY PRODUCTION SYSTEMS
21	ABILITY TO MAKE THE WINDING OF ACCURATE AND ALTERNATIVE CURRENT ENGINES
22	ABILITY TO RECOGNIZE SYSTEMS USED IN ELECTRICAL ENERGY TRANSMISSION AND DISTRIBUTION AND TROUBLESHOOTING
23	Ability to use the methods and techniques of career planning and discussing the effects of character traits on career preferences.
24	Ability to plan a career in their own profession.
25	To provide them with knowledge about substance use and addiction problem and prevention methods.

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

	L1	L2	L3	L4	L5
P17	2	3	3	3	3
P18	3	3	4	4	4
P19	4	3	3	5	5