AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title		Sensors and Transdusers					
Course Code		MTR205		Couse Level		Short Cycle (Associate's Degree)	
ECTS Credit	3	Workload	75 *(Hours)*	Theory	2	Practice	0	Laboratory	0
Objectives of the Course		To gain knowledge and skills to use all kinds of sensors in related circuits it is intended					
Course Content		Temperature Sensors, Humidity Sensors, Speed ??Sensors, Vibration Sensors, Position Sensors, Approach Sensors, Pressure Sensors, Flow Sensors, Level Sensors, Pulse (Force) Sensors.					
Work Placement		N/A					
Planned Learning Activities and Teaching Methods			Explanation (Presentation), Experiment, Demonstration, Case Study				
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	Ders notları

Week	Weekly Detailed Course Contents	
1	Theoretical	Position Sensors
2	Theoretical	Position Sensors
3	Theoretical	Temperature sensors
4	Theoretical	Temperature sensors
5	Theoretical	Humidity sensors
6	Theoretical	Flow Sensors
7	Theoretical	Flow Sensors
8	Theoretical	Level sensors
9	Theoretical	Impact sensors
10	Theoretical	Impact sensors
11	Theoretical	Speed ??/ vibration / acceleration sensors
12	Theoretical	Approach sensors
13	Theoretical	Pressure sensors
14	Theoretical	light sensor
15	Theoretical	Color sensors

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	1	2	42
Assignment	6	0	1	6
Midterm Examination	1	10	1	11
Final Examination	1	15	1	16
Total Workload (Hours)				75
[Total Workload (Hours) / 25*] = **ECTS**				3

25 hour workload is accepted as 1 ECTS

Learning Outcomes

1	Define sensor and tranduser
2	To understand the operation of sensors and transducers

3	Be able to design sensor
4	To make transducer design
5	To be able to apply sensors and transducers with microprocessors.

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
P3	3	3	3	3	4
P10	3	3	4	4	5
P16	3	3	4	4	5
P17			4	4	5