AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title		Mechanism Technique					
Course Code		MTR221		Couse Level		Short Cycle (Associate's Degree)	
ECTS Credit	3	Workload	74 *(Hours)*	Theory	2	Practice	0	Laboratory	0
Objectives of the Course		The objective of the course is to provide gaining of knowledge and skills on mechanisms for their professional career.					
Course Content		Classification of mechanisms and mechanism types, Arm mechanisms, Connecting crank mechanisms, Cam mechanisms					
Work Placement		N/A					
Planned Learning Activities and Teaching Methods			Explanation (Presentation), Problem Solving				
Name of Lecturer(s)							

Assessment Methods and Criteria

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

Recommended or Required Reading

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Week	Weekly Detailed Course Contents	
1	Theoretical	Introduction to the class, definitions and general information about lesson,
2	Theoretical	Classification of mechanisms and types of mechanism
3	Theoretical	Mechanisms kinematic chains
4	Theoretical	Degrees of freedom of mechanisms
5	Theoretical	Kinematics of a point and an object
6	Theoretical	Velocity and acceleration analysis of mechanisms
7	Theoretical	Velocity and acceleration analysis of mechanisms
8	Theoretical	Mid-term exam
9	Theoretical	Sudden presence of centers of rotation
10	Theoretical	Four bar mechanisms
11	Theoretical	Synthesis of four bar mechanisms
12	Theoretical	Connecting rod crank mechanism
13	Theoretical	Synthesis of connecting rod crank mechanism
14	Theoretical	Cam mechanisms

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	1	2	42
Individual Work	5	1	1	10
Midterm Examination	1	10	1	11
Final Examination	1	10	1	11
			Total Workload (Hours)	74
		[Total Workload (Hours) / 25*] = **ECTS**		3

25 hour workload is accepted as 1 ECTS

Learning Outcomes

1	To be able to comprehend the basic principles of mechanisms.
2	To be able to recognize the types and properties of mechanisms.
3	To be able to comprehend structural elements and characteristics of mechanisms.
4	Make the synthesis and analysis of mechanisms

5	Suitable for solving problems related to mechanisms and mechanisms to make the selection.

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
P11		3	3	3	3
P14	3	3	3	3	3
P22	3	3	3	3	3