

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title	Machine Elem	ents						
Course Code	OTE209 Couse Level		Couse Level Short Cycle (Associate's Degree)		Short Cycle (Associate's Degree)			
ECTS Credit 2	Workload	50 (Hours)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course This course, aims to make t			he calculation	ns for the	basic concepts	of machine	e elements.	
Course Content Calculation of the basic concepts of machine elements								
Work Placement	N/A							
Planned Learning Activities and Teaching Methods Explanation (Presentation), Individual Study, Problem Solving								
Name of Lecturer(s)	Lec. Hasan BA	AYRAKTAR						

Assessment Methods and Criteria					
Method	Quantity	Percentage (%)			
Midterm Examination	1	40			
Final Examination	1	70			

Week	Weekly Detailed Co	urse Contents
1	Theoretical	Basic Concepts
2	Theoretical	Fasteners
3	Theoretical	Soldering, welding, shaft-hub connections
4	Theoretical	Retainer, Tapered Plug, Pin
5	Theoretical	Tolerances, Surface Quality Rivets and Accounts
6	Theoretical	Wedges Bolts and Studs
7	Theoretical	Gear and Accounts
8	Theoretical	Belts and Pulleys
9	Theoretical	Concepts Torque, Torque gear Boxes
10	Theoretical	Bows mechanisms Chains
11	Theoretical	Pulleys and Ropes
12	Theoretical	Shafts and Shaft Accounts
13	Theoretical	Axles
14	Theoretical	beds
15	Theoretical	Beds

Workload Calculation						
Activity	Quantity	Preparation	Duration	Total Workload		
Lecture - Theory	15	0	2	30		
Assignment	5	0	2	10		
Term Project	4	0	2	8		
Midterm Examination	1	0	1	1		



Final Examination	1		0	1	1
	Total Workload (Hours) 50			50	
[Total Workload (Hours) / 25*] = ECTS 2				2	
*25 hour workload is accepted as 1 ECTS					

Learr	ning Outcomes
1	Be able to calculate the machine elements.
2	able to do resistance elements merge accounts, tensile, compression, shear and torsion strength calculations according to the technique
3	will be able to withstand the accounts in Gears, belts, pulleys and clutches accounts, shafts, bearings and chains accordance with the technique.
4	Learning and applying the wear and lubrication properties of the beds
5	Bearing types and functions to understand and apply in practice

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Progra	amme 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 DESIGN
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
P4	5	5	5	5	5
P5	5	5	5	5	5

