

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title	Measurement and Control	ent and Control					
Course Code	MKE107 Couse Level		Couse Level Short Cycle (Associate's Degree)				
ECTS Credit 2	Workload 50 (Hours)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course The aim of this course, frequently used in workshop conditions are necessary for manufacturing technicians in the basic principles of measuring instruments to introduce, teach the use of manufactured parts to grasp how to do inspections, controls, gauges are used to introduce the basic principles to teach and use.							
Course Content Calipers, Micrometers, Comparators, Angle Measurement, Surface Roughness Measurement, Screw Measurement, Gear Wheel Measurement, Gauge and Optical Glass Surface Control, Shape Tolerance Control, Size Tolerance Control.							
Work Placement	N/A						
Planned Learning Activities	Demonstra	ation, Individ	ual Study				
Name of Lecturer(s)	s. Alpaslan E	BAŞARIK					

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

Recommended or Required Reading

- 1 Measuring Technique
- 2 MEGEP Measurement Control and Marking

Week	Weekly Detailed Course Contents				
1	Theoretical	Measuring and control			
2	Theoretical	Calipers			
3	Theoretical	Micrometers			
4	Theoretical	Angle measurement			
5	Theoretical	Surface roughness measurement			
6	Theoretical	measurement of screws			
7	Theoretical	measurement of gearwheel			
8	Theoretical	measurement of gearwheel			
9	Intermediate Exam	Midterm			
10	Theoretical	To control the surfaces with gauges and optical glasses			
11	Theoretical	To control shape - position tolerance			
12	Theoretical	To control shape - position tolerance			
13	Theoretical	To control shape - position tolerance			
14	Theoretical	hardness measurement			
15	Theoretical	hardness measurement			
16	Final Exam	Final Exam			

Workload Calculation						
Activity	Quantity	Preparation		Duration	Total Workload	
Lecture - Theory	14	0		2	28	
Studio Work	5		0	2	10	
Midterm Examination	1		5	1	6	
Final Examination	1		5	1	6	
	50					
[Total Workload (Hours) / 25*] = ECTS						
*25 hour workload is accepted as 1 ECTS						



Learr	ning Outcomes
1	Learn the basic principles of measuring instruments
2	Measurement and control environments and understanding of errors
3	Understand the use of measuring instruments.
4	To understand how to control the produced parts.
_	To understand the hagis principles of iigs

5	To understand the basic principles of jigs.					
Prog	gramme Outcomes (Machinery)					
1	To be able to know general properties and usage areas of inde	ustrial materials and make selection.				
2	Design of machine elements.					
3	To be able to make production using machining and welding m	achines without machining.				
4	To be able to make measurement and quality control processe	s with machine tools for measuring and control equipment.				
5	To be able to make necessary corrections in order to determine methods in welded parts and to eliminate these mistakes.	e the mistakes by using the necessary non-destructive test				
6	Preventive measures to prevent the occurrence of these faults by preliminarily determining the faults that will occur in the machines as statistical data and to make necessary interventions in case of breakdown.					
7	They can make drawings of work pieces on CAD station and a and AUTOCAD package programs.	oply them on CNC looms. Ability to operate and use CAD / CAM				
8	To be able to transfer engineering science and technology to p principles.	ractice by making calculations in the direction of scientific				
9	It can repair the elements in pneumatic and hydraulic systems and can regulate their work.	which are indispensable elements of automatic control systems				
10	The student who is trained as a machine technician during the of work is error finding, problem solving, decision making, planaiming to acquire these characteristics.					

Cantribution of Lagrains	Outcomes to Programme	Outcomes 11/00	1 au 21 au	2.11/20/11/12	Alliah Ellah
Contribution of Learning	i Outcomes to Programme	Concomes / ven	/ I OW / I OW	.5 1//10/11/11/11	4 MIGH 3 VEIV MIGH

	L1	L2	L3	L4	L5
P1	2	3	4	5	3
P2	5	4	4	4	4
P3	4	4	4	4	3
P4	5	4	4	3	5
P5	5	4	4	4	3
P6	5	5	4	2	4
P7	4	5	4	4	5
P8	4	5	4	5	3
P9	5	4	4	3	2
P10	3	3	4	4	1

