AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title		Measurig Tecnıque						
Course Code		OTE110		Couse Level		Short Cycle (Associate's Degree)		
ECTS Credit	2	Workload	50 *(Hours)*	Theory	2	Practice	0	Laboratory	0
Objectives of the Course		Measurement technique is aimed to gain competencies related to the automotive industry.						
Course Content		In this course students learn the theory of measurement technique. Know measurement devices, their uses, learns, and makes the measurement.						
Work Placement		N/A						
Planned Learning Activities and Teaching Methods			Explanation (Presentation), Demonstration, Case Study, Individual Study, Problem Solving					
Name of Lecturer(s)		Lec. Erman AYDIN						

Assessment Methods and Criteria

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

Recommended or Required Reading

1	Measurement Techniques Lecture Notes
2	Megep Lecture Notes

Week	Weekly Detailed Course Contents	
1	Theoretical	Measurement and Control Terminology, Dimensional Measurement Units
2	Theoretical	Direct (Direct) Measurement Methods Indirect (Comparative) Measurement Methods Measuring Tools
3	Theoretical	Direct (Direct) Measurement Methods Indirect (Comparative) Measurement Methods Measuring Tools
4	Theoretical	Calipers
5	Theoretical	Micrometers
6	Theoretical	Comparators, gauges, cents, etc.
7	Theoretical	Configuring Maintenance and Measuring Instruments
8	Theoretical	Configuring Maintenance and Measuring Instruments
9	Theoretical	Electrical Measuring Instruments
10	Theoretical	Electrical Measuring Instruments
11	Theoretical	Make Measuring Instruments Calibration
12	Theoretical	Other Measuring Equipment (Laser, etc.).
13	Theoretical	Concept and Method of Measuring Surface Roughness
14	Theoretical	Concept and Method of Measuring Surface Roughness
15	Theoretical	Concept and Method of Measuring Surface Roughness

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	15	0	2	30
Individual Work	9	0	2	18
Midterm Examination	1	0	1	1

Final Examination	1	0	1	1
		Total Workload (Hours)		50
		[Total Workload (Hours) / 25*] = **ECTS**		2

*25 hour workload is accepted as 1 ECTS

Learning Outcomes

1	Be able to measure parts of the vehicle and engine controls.
2	Be able to measure vehicle and engine parts.
3	To learn to use measuring Instruments
4	To do maintenance of the measuring instrument
5	To learn Measuring instruments and to know the standards

Programme Outcomes *(Automotive Technology)*

1	Using the basic knowledge and skills acquired in his/her field of study, to have the ability to evaluate and interpret the data, to define and analyze the problems, to make solution suggestions based on evidence and proofs.
2	To choose and use efficiently contemporary techniques and means as well as information technologies required for the applications related to the field of study.
3	The ability to apply the processes related to industrial and service sector by examining.
4	To gain the ability to produce solutions to unforeseen situations, take responsibility in teams and to have the skill to conduct individual works.
5	To achieve an awareness of the necessity of lifelong learning and consistently self-improving besides of following the developments in science and technology.
6	To become skillful at using computer hardware and software in a baseline level required by the field of study.
7	To be aware of Business Law, Job Security, environmental protection and quality concepts.
8	To have a command of communication skills and foreign language in order to communicate efficiently and follow the latest developments in his/her field of study.
9	Acquiring enough conceptual and applied knowledge in Mathematics, Science and Basic Engineering issues related to his/her field.
10	To plan the processes in automotive technology field to meet the expectations of the sector.
11	To become skillful at making designs by means of technical and computer-aided drawings and simulation programs, and by using various software programs to be able to choose systems and components required in by the field apart from making the basic sizing computations and drawing the architectural and static projects and details.
12	Ability to use the methods and techniques of career planning and discussing the effects of character traits on career preferences.
13	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
P1	5	5	5		4
P2	5	5	5	3	4
P3	2	2	1		3
P4			1		
P5	3	3	2	1	2
P6	4	4	3	3	2
P7	3	3	2	2	
P9	3	3	1		2
P10					1
P11	3	3	2		2