AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title	Measurement Technique								
Course Code	OTT110		Couse Level	Short Cycle (Associate's Degree)					
ECTS Credit	2	Workload	50 *(Hours)*	Theory	2	Practice	0	Laboratory	0
Objectives of the Course	It is aimed to gain qualifications about measurement technique in automotive								
Course Content	In this course, students learn the theory of measurement technique. They know the measuring instruments, learn their uses, make measurements.								
Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Explanation (Presentation), Demonstration, Case Study, 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	
1	Measurement Technique 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 Measurement Instruments
3	Theoretical	Direct (direct) Measurement Methods Indirect (Comparative) Measurement Methods Measurement Instruments
4	Theoretical	calipers
5	Theoretical	micrometers
6	Theoretical	Comparators, gauges, etc. Sentier
7	Theoretical	National and International System of Units
8	Theoretical	Making Settings on the Maintenance and Measuring Instruments

9	Intermediate Exam	Bunu mu demek istediniz? Ara Sınav midterm
10	Theoretical	Electrical Measuring Instruments
11	Theoretical	Electrical Measuring Instruments
12	Theoretical	Make the Calibration of Measurement Instruments
13	Theoretical	Other Measuring Equipment (Laser etc.).
14	Theoretical	Concepts and Methods for Measuring Surface Roughness
15	Theoretical	Concepts and Methods for Measuring Surface Roughness
16	Final Exam	Final Exam

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

Learning Outcomes	
1	To be able to learn measurement tools, to know standards
2	To learn measurement and control thermolysis
3	Learn the use of measuring instruments.
4	To be able to learn electrical and electronic measurement instruments
5	will be able to control the dimensions of the vehicle and engine parts.

Programme Outcomes *(Automotive Technology)*	
1	To be able to interpret and evaluate data, identify problems, analyze them, and develop evidence-based solutions by using basic knowledge and skills in the field.
2	Must be able to choose and effectively use the modern techniques, tools and information technologies necessary for field related applications.
3	Must be able to gain practical skills by examining relevant processes in industry and service sector on site.
4	They must be able to produce solutions, take responsibility for teams or do individual work when they encounter situations unforeseen in the field related applications.
5	Awareness of the need for lifelong learning; it must be able to follow the developments in science and technology and to constantly renew itself.

6	Must be able to use computer software and hardware at the basic level required by the field
7	Must have job security, worker health, environmental protection knowledge and quality awareness.
8	He must possess a level of foreign language knowledge that is capable of following the innovations in his area of expertise and communication techniques.
9	Must be able to acquire basic theoretical and practical knowledge about the field in mathematics, science and basic engineering.
10	It should have the ability to plan the processes / processes of the Automotive Program to meet the expectations of the sector.
11	To be able to design the systems and components related to the field by using technical drawing, computer aided drawing, designing using simulation programs and using various softwares, to be able to make basic sizing calculations, to be able to master professional plans and projects.

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	2	3	5	4	5
P2	1	3	5	4	5
P3	2	4	4	5	4
P4	3	4	4	4	4
P5	2	5	1	5	1
P6	3	3	4	4	4
P7	5	5	2	5	2
P8	4	3	1	1	1
P9	2	3	2	5	2
P10	3	2	5	5	5
P11	2	5	1	4	1