

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title Engine 1		Engine Techn	logy							
Course Code		OTE156		Couse Level		Short Cycle (Associate's Degree)				
ECTS Credit	4	Workload	100 (Hours)	Theory		3	Practice	1	Laboratory	0
Objectives of the Course Be able to do the repair and			d mainte	aintenance of all components on the vehicle's engine.						
Course Content		motors Measu Mechanism,	urement and Corankshaft and	Control, \	√alves afts, Ti	, Sente ar ime Settin	nd Cylinder I g Mechanisi	Head, Valve N	to Cycle, Diesel C Mechanism, Piston Valve Timing, Vari	Crank
Work Placement N/A										
Planned Learning Activities and Teaching Methods			Explan	ation (Presentat	ion), Demon	stration, Indiv	ridual Study		
Name of Lecturer(s) Lec. Hasan BAYRAKTAR										

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

Recommended or Required Reading

- 1 Motorlu Taşıt Tekniği-Wilfried Staudt MEB 1995
- 2 Honda Eğitim Merkezi Katologları

Week	Weekly Detailed Course Contents						
1	Theoretical	Measuring instruments, Engine terms					
2	Theoretical	Two and Four Stroke motor Cycles, Cycles Otto, Diesel Conversions					
3	Theoretical	Engines, Measurement and Control					
4	Theoretical	Valves, Sente and Cylinder Head					
5	Theoretical	Valve Mechanism					
6	Theoretical	Piston Crank Mechanism					
7	Theoretical	Rings					
8	Theoretical	The crankshaft and camshafts					
9	Theoretical	Time Adjustment Mechanisms					
10	Theoretical	Variable Valve Timing					
11	Theoretical	Variable Valve Timing					
12	Theoretical	Engine Blocks					
13	Theoretical	Lubrication System					
14	Theoretical	Cooling System					
15	Theoretical	Cooling System					

Workload Calculation						
Activity	Quantity	Preparation	Duration	Total Workload		
Lecture - Theory	15	0	3	45		
Lecture - Practice	15	1	1	30		
Assignment	8	0	2	16		
Laboratory	8	0	1	8		
Midterm Examination	1	0	1	1		



Final Examination	1		0	0	0	
			To	tal Workload (Hours)	100	
		[Total Workload (Hours) / 25*] = ECTS	4	
*25 hour workload is accepted as 1 ECTS						

Learning Outcomes

- 1 will be able to document the synthesis of basic mechanical operations.
- 2 be able to repair and control the cylinder head and piston-crank mechanism
- 3 to control and may change time adjustment mechanisms, and variable valve timing mechanism.
- 4 Be able to repair and maintain the cooling system and engine lubrication system.
- 5 To understand the engine disassembly and assembly techniques, failure on the search, to learn the methods of removal

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.
- To choose and use efficiently contemporary techniques and means as well as information technologies required for the applications related to the field of study.
- The ability to apply the processes related to industrial and service sector by examining.
- To gain the ability to produce solutions to unforeseen situations, take responsibility in teams and to have the skill to conduct individual works.
- 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.
- 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.
- 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.
- Ability to use the methods and techniques of career planning and discussing the effects of character traits on career preferences.
- 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	4	3	3	3	5
P2	4	3	3	3	5
P3	4	2	2	2	3
P4	3	4	4	4	4
P5	1	1	1	1	3
P6	3	3	3	3	4
P7	1	2	2	2	3
P9		3	3	3	2
P10	2	2	2	2	2
P11					3

