



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Automotive Electronics							
Course Code		OTE108		Course Level		Short Cycle (Associate's Degree)			
ECTS Credit	3	Workload	75 (Hours)	Theory	2	Practice	2	Laboratory	0
Objectives of the Course		The aim of this course is to provide basic information about the electronic components and the structure of these elements and, to teach students the principles and practices.							
Course Content		In these course principles of car sensors available on the vehicle electronic systems, mechanisms work, care and control are taught.							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Discussion, Individual Study, Problem Solving					
Name of Lecturer(s)		Ins. Cemal GÖVEN							

Assessment Methods and Criteria

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

Recommended or Required Reading

1	Otomotiv Elektroniği / Rıdvan ARSLAN / Ali SÜRMEN –Alfa Yayınları-Eylül -2007
2	Megep Otomotiv Ders Notları
3	www.obitet.gazi.edu.tr
4	Otomotiv Elektroniği /Ali Özdemir-Erdem Özdemir/İnkansa Matbası,Ankara 2005

Week	Weekly Detailed Course Contents	
1	Theoretical	Electronic Circuit Components
2	Theoretical	Electronic Circuit Components
3	Theoretical	Various electronic circuits Structures, Activities and Controls
4	Theoretical	Various electronic circuits Structures, Activities and Controls
5	Theoretical	Various electronic circuits Structures, Activities and Controls
6	Theoretical	diagnostic Devices
7	Theoretical	diagnostic Devices
8	Theoretical	Buyers (Sensors)
9	Theoretical	Buyers (Sensors)
10	Theoretical	Activator
11	Theoretical	Activator
12	Theoretical	Activator
13	Theoretical	Electronic Control Units
14	Theoretical	Electronic Control Units
15	Theoretical	Electronic Control Units

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	15	0	2	30
Lecture - Practice	15	0	2	30
Assignment	4	0	2	8
Individual Work	1	0	5	5
Midterm Examination	1	0	1	1



Final Examination	1	0	1	1
Total Workload (Hours)				75
[Total Workload (Hours) / 25*] = ECTS				3
*25 hour workload is accepted as 1 ECTS				

Learning Outcomes

1	Know electronic circuit elements.
2	Know usage of diagnostic devices.
3	Have knowledge about sensors and sensor applications
4	Know the systematic electronic control units
5	To be able to recognize the other electronic systems on the vehicle

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

