



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Introduction to Automotive Electronics							
Course Code		OTT201		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 give basic information about electronic elements and to teach the structures, working principles and applications of these elements							
Course Content		In this course, the working principles of sensors in the car are taught, the operation of electronic mechanisms of vehicle system systems, maintenance and controls are taught.							
Work Placement		None							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Discussion, Problem Solving					
Name of Lecturer(s)		Ins. Erdoğan PİRELİ							

Assessment Methods and Criteria

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

Recommended or Required Reading

1	Automotive Electronics / Rıdvan ARSLAN / Ali SÜRMEN SAİfa Yayınları-September -2007
2	Megep Automotive Lecture Notes
3	www.obitet.gazi.edu.tr

Week	Weekly Detailed Course Contents	
1	Theoretical	Electronic Circuit Components
2	Theoretical	Electronic Circuit Components
3	Theoretical	Structures, Studies and Controls of Various Electronic Circuits
4	Theoretical	Structures, Studies and Controls of Various Electronic Circuits
5	Theoretical	Structures, Studies and Controls of Various Electronic Circuits
6	Theoretical	Diagnostic Devices
7	Theoretical	Diagnostic Devices
8	Theoretical	Receivers (Sensors)
9	Intermediate Exam	Midterm
10	Theoretical	Aktuvat
11	Theoretical	Aktuvat
12	Theoretical	Electronic Control Units
13	Theoretical	Electronic Control Units
14	Final Exam	Semester final exam

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Lecture - Practice	14	0	2	28
Laboratory	7	0	1	7
Midterm Examination	1	5	1	6
Final Examination	1	5	1	6
Total Workload (Hours)				75
[Total Workload (Hours) / 25*] = ECTS				3

*25 hour workload is accepted as 1 ECTS

Learning Outcomes

1	Recognize electronic circuit elements.
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2	Knows the use of diagnostic devices.
3	Know the sensors and the application areas of sensors.
4	Knows the systematics of electronic control units.
5	Recognition of other electronic systems on the vehicle and malfunction

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

