



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Power Transfer Parts							
Course Code		OTE203		Course Level		Short Cycle (Associate's Degree)			
ECTS Credit	4	Workload	100 (<i>Hours</i>)	Theory	3	Practice	1	Laboratory	0
Objectives of the Course		To understand operating principles, failures, types and maintenance of all transmission instruments.							
Course Content		Bu derste öğrenciler; aracın güç aktarma organlarını oluşturan kavrama, vites kutusu, kardan mili, diferansiyel ve aksların bakım kontrol ve ayarlarını öğrenir.							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Demonstration, Individual Study, Problem Solving					
Name of Lecturer(s)		Ins. Etem SAÇMACIOĞLU							

Assessment Methods and Criteria

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

Recommended or Required Reading

1	Crouse, W.H., Otomotive Chasis and Body.
2	Betün A., Motorlu Taşıtlarda Güç Aktarma Organları.
3	Güç Aktarma Organları / Megep Ders Notları

Week	Weekly Detailed Course Contents	
1	Theoretical	Clutches and Clutch Operating Systems Allocation Systems
2	Theoretical	Clutches and Clutch Operating Systems Allocation Systems
3	Theoretical	Hydraulic Clutch Centers
4	Theoretical	Front Wheel Drive Gear Boxes
5	Theoretical	Mechanical Gear Boxes Key Terms and Concepts
6	Theoretical	Mechanical Gear Box
7	Theoretical	Hydraulic Power Transmission, Torque Converter
8	Theoretical	Hydraulic Power Transmission, Torque Converter
9	Theoretical	Automatic Gear Box Planetary Gear Systems
10	Theoretical	Variable Geometry Gear Box (CVT) Pulley, Belt-Chain System
11	Theoretical	Variable Geometry Gear Box (CVT) Pulley, Belt-Chain System
12	Theoretical	Automatic Gearbox Hydraulic System
13	Theoretical	Automatic Gearbox Electronic System and Management
14	Theoretical	Triptironik Gear Box Control Systems Shafts, Differentials, limited slip differential, Axles
15	Theoretical	Triptironik Gear Box Control Systems Shafts, Differentials, limited slip differential, Axles

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	15	0	3	45
Lecture - Practice	15	0	1	15
Term Project	2	0	9	18
Studio Work	10	0	2	20
Midterm Examination	1	0	1	1



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

Learning Outcomes

1	Students taking this course, learn the systematic driveline issues.
2	Driveline inspection, maintenance and repairs.
3	Compare the characteristics of the motor vehicle characteristics, the need to transfer bodies to interpret. Power to make a comment about the working conditions on the vehicle driveline.
4	Clutches and clutch characteristics, mechanical grip and magnetic clutch, Hydraulic Couplings and characteristics. Torque Converters and understand user objectives,
5	The types of gear boxes and learns. Gear ratios found by drawing diagrams to understand and analyze shift .

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

