AUTOMOTIVE TRANSMISSION DESIGN									
1	Course Title:	AUTOM	OTIVE TRANSMISSION DESIGN						
2	Course Code:	OTO511	9						
3	Type of Course:	Optional							
4	Level of Course:	Third Cy	cle						
5	Year of Study:	1							
6	Semester:	1							
7	ECTS Credits Allocated:	6.00							
8	Theoretical (hour/week):	3.00							
9	Practice (hour/week):	0.00							
10	Laboratory (hour/week):	0							
11	Prerequisites:	None							
12	Language:	Turkish							
13	Mode of Delivery:	Face to f	ace						
14	Course Coordinator:	Dr. Ögr.	Üyesi EROL SOLMAZ						
15	Course Lecturers:								
16	Contact information of the Course Coordinator:	e-posta:	lyesi Erol Solmaz esolmaz@uludag.edu.tr 224-2941985						
17	Website:								
18	Objective of the Course:	The goal of course is to learn all the elements that the first movement from the motor until wheels one of the objectives of the course is to be known as Power Transmission.							
19	Contribution of the Course to Professional Development:	It develops the ability to design different gearboxes and determines the working principles of different clutches.							
20	Learning Outcomes:								
		1	Learning the components of the working principles of the vehicle						
		2	To improve the ability to design different gear boxes						
		3	Determination of the mechanical and hydraulic clutches awareness						
		4	Differential gain the ability to design						
		5							
		6							
		7							
		8							
		9							
		10							
21	Course Content:								
Mask	Theoretical	Co	purse Content:						
	Theoretical	arboyas	Practice						
1	Mechanical efficiency, Automobile geschemes	aiboxes							
2	Gears								
3	Transmission ratios determination, p examples of automobile and industria gearboxes								

4 F	Forces that affect the vehicle																
<b>5</b> S	Stage gearboxes																
<b>6</b> Fi	Friction clutch																
	Hydrodynamic clutch, hydrodynamic torque converter																
<b>8</b> D	Differentials																
<b>9</b> In	Influence of differentials on vehicle behaviour						r										
<b>10</b> R	Repeating courses and midterm exam																
<b>11</b> A:	Axle systems																
<b>12</b> A	Automatic gearboxes																
<b>13</b> A	Automatic gearboxes control strategies																
<b>14</b> D	Design of vehicle gearboxes																
<b>22</b> T <sub>M</sub>	Textbooks, References and/or Other Materials:							Ft S <sub>1</sub> 2. 20 3. M	G.Lechner, H. Naunheimer, Automotive Transmissions, Fundamentals, Selection, Design and Application, 1999, Springer.     Prof.Dr.Nusret Sefa Kuralay, Motorlu Taşıtlar Cilt 1, 2008, MMO     R.Arslan, C.Kaplan, A.Sürmen, M.İhsan Karamangil, Motorlu Taşıtlarda Güç Aktarma Organları, 2011, Alfa Aktüel								
<b>23</b> A	ssesme	ent															
TERM LEA	ARNING	ACTI	VITIES				UMBE	W	EIGHT								
Activites							Number			Dura	Duration (hour)			Total Work Load (hour)			
Home wo	n <del>k-proje</del> al	eci						11	19140			3 00	3 00			42 00	
Practicals	I Evom							le.	0			0.00			0.00		
	study and preperation								12			4.00			48.00		
Homewor	atribution of Torm (Voor) Loorning Astivition to							14	1			20.00			20.00		
Projects	Projects Contribution of Final Exam to Success Grade						6	60,00			25.00			25.00			
Field Stud	iffribution of Final Exam to Success Grade							0			0.00			0.00			
Midterm e	erm exams								1			20.00			20.00		
Others	S								0			0.00			0.00		
Final Eke	PCTS / WORK LOAD TABLE							1			25.00			25.00			
Total Wor															200.00		
Total wor	k load/	30 hr													6.00		
ECTS Cre	Credit of the Course 6.00																
25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS																
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1	PQ14	PQ15	PQ16	
ÖK1	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ÖK2	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ÖK3	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ÖK4	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
LO: Learning Objectives PQ: Program Qualifications									PQ: P	rogra	ım Qu	alifica	tions	5	-		

Contrib	1 very low	2 low	3 Medium	4 High	5 Very High
ution					
Level:					