POWER TRANSMISSION UNITS									
1	Course Title:	POWER TRANSMISSION UNITS							
2	Course Code:	OTO3005							
3	Type of Course:	Optional							
4	Level of Course:	First Cycle							
5	Year of Study:	4							
6	Semester:	8							
7	ECTS Credits Allocated:	4.00							
8	Theoretical (hour/week):	3.00							
9	Practice (hour/week):	0.00							
10	Laboratory (hour/week):	0							
11	Prerequisites:								
12	Language:	Turkish							
13	Mode of Delivery:	Face to face							
14	Course Coordinator:	Doç. Dr. FATİH KARPAT							
15	Course Lecturers:	yok							
16	Contact information of the Course Coordinator:	Prof. Dr. Emin Güllü Tel: 2941959 mail: egullu@uludag.edu.tr							
17	Website:								
18	Objective of the Course:	Power transmission elements can be made recognizable and accounts. In particular the reduction of the mass moments of inertia be done, the engine side of the reduced availability of inertia, moment of inertia of the tires account can be made by the method of shaking, developing new information systems and technology transfer, account can be made automatic gearbox and automatic clutch.							
19	Contribution of the Course to Professional Development:								
20	Learning Outcomes:								
		1	Understood the concepts of moment of inertia will be a practical sense.						
		2	Calculation of moments of inertia of the machine parts that do not have proper geometry						
		3	Application of the methods applied to parts which are very difficult to account.						
		4	Automatic operation and calculation of power transmission systems.						
		5	Velocity analysis and solution clutches.						
		6	Built-in systems analysis and solution speed clutch spring.						
		7							
		8							
		9							
		10							
21	Course Content:								
107	T. C. 1	Co	ourse Content:						
Week	Theoretical Practice								

1	Engine to wheels, clutch, gearbox, she side shaft and construction of power transmission using differential. Funct engine speed and torque in the torque drive force curves characterized by the	ion of e of the									
	source derivation										
2	System that connects the two shafts at different speeds and at any time of time that separates the two types of ghaft system that brings the same sp Recognized as the expected propertimaterials used in clutches and friction materials.	r any grip and eed. es of									
3	Properties of the friction clutches, fric clutches occurrence of axial force, the surfaces under the influence of the for the pressure and consequently the friction moment of the calculation. Mechanical Clutches Control Assembly	e contact orce P of iction									
4	The dynamic behavior of friction cluto	ches									
5	Gearbox, fixed gear, Direct shaft, the splines.										
6	Selection of gears, gears Gear Ratio Selection										
7	Mass moment of time accounts for th calculation of the clutch A-Mass mom inertia calculation .B-Reduced mass of inertia, such as full disk	nent of									
Activit				Number	Duration (hour)	Total Work Load (hour)					
Theoretical				14	3.00	42.00					
Moment of the discovery of resistance to M2 Practicals/Labs				0	0.00	0.00					
	<del>                                     </del>			6	5.00	30.00					
Homev	Idy and preperation IModeling Engine + Clutch +Load		L		0.00	0.00					
	1		Т	0							
Field S	Motor Side Mass Moment of Inertia			2 0	60.00						
		of ioint	ı		1.00						
	Enginesspeed, load rate and the rate	or joint		1	1.00						
Others		\ D	ı	3	3.00	9.00					
	equisitions with the help of the MATLA			1	1.00	1.00					
	Vork Load		T.	D T	<b>.</b>	143.00					
	Trextband/ks0 References and/or Other		1	Power Transmission	Systems Lecture No						
ECIS	Credit of the Course			R.Shaver. S.A.E. Publications, AE-17, 1997, Warrendale, PA, USA							
23	Assesment										
	EARNING ACTIVITIES	NUMBE R		WEIGHT							
Midterm Exam 1				40.00							
Quiz 0				0.00							
Home work-project 0				0.00							
Final E	xam	1	60.00								
Total		2	100.00								
	oution of Term (Year) Learning Activitiens Grade	es to	4	0.00							

Contribution of Final Exam to Success Grade							60.	60.00									
Total							100	100.00									
Measurement and Evaluation Techniques Used in the Course								ne									
24 E0	CTS/	WO	RK L	OAD	TAB	LE											
25	25 CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS																
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16	
ÖK1	4	3	4	0	0	0	5	0	0	0	0	0	0	3	0	0	
ÖK2	5	3	3	0	4	0	4	0	0	0	3	0	0	0	0	0	
ÖK3	3	2	3	0	0	0	5	0	0	0	0	0	0	0	0	0	
ÖK4	3	5	0	0	0	4	0	2	0	0	5	3	0	3	0	0	
ÖK5	3	3	0	0	0	0	0	0	0	0	0	0	0	3	0	0	
ÖK6	5	5	4	0	5	0	4	3	0	0	4	0	0	4	0	0	
LO: Learning Objectives PQ: Program Qualifications																	
Contrib 1 very low 2 ution Level:			2 low		3	Medi	um		4 Higl	n		5 Ver	y High	1			