	AUTO	ΜΟΤΙ	VE MATERIALS							
1	Course Title:	AUTOM	OTIVE MATERIALS							
2	Course Code:	OTO4021								
3	Type of Course:	Optional								
4	Level of Course:	First Cyc	cle							
5	Year of Study:	4								
6	Semester:	7								
7	ECTS Credits Allocated:	5.00								
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.	Rukiye ERTAN							
15	Course Lecturers:									
16	Contact information of the Course Coordinator:	e-mail: r Tel: + 90 Adres: U	Rukiye Ertan e-mail: rukiye@uludag.edu.tr Tel: + 90 (224) 294 06 53 Adres: Uludağ Üniversitesi, Mühendislik Fakültesi, Otomotiv Mühendisliği Bölümü, 16059, Görükle-Bursa, Türkiye.							
17	Website:									
18	Objective of the Course:	ect of this course is to teach the materials used in ive manufacturing ang gives the information about the es of these materials.								
19	Contribution of the Course to Professional Development:									
20	Learning Outcomes:									
		1	To be known the materials selection criterions in automotive manufacturing.							
		2	To have a detailed information about the materials used in automotive manufacturing.							
		3	To be known the advantages and disadvantages of the alternative materials.							
		4	To have an idea about the testing methods determining the materials eligibility.							
		5	To have a general idea about the manufacturing of the materials.							
		6								
		7								
		8								
		9								
		10								
21	Course Content:									
1.4.		Course Content:								
	Theoretical		Practice							
1	Introduction									

	Influer autom					lection	of											
	An ov the au					f mate	rials u	sed ir	١									
	The importance and properties of cast iron in automotive																	
	The importance and properties of steels in automotive																	
	The in alloys				prope	rties of	falum	inium										
	The importance and properties of magnesium alloys in automotive																	
	The importance and properties of titanium alloys in automotive																	
9	Autom	notiv	ve pla	stics														
10	Autom	notiv	ve cor	nposit	tes													
11	Ceramics and glass																	
	Testing techniques used in automotive materials																	
	Conventional methods used in the production of automotive materials																	
	Unconventional methods used in the production of automotive materials																	
22	Toyth	ook		forono		d/or Of	hor											
22 Textbooks, References and/or Other Activites							1	Numb	er		Dura	tion (Total Work Load (hour)				
Theoret	tical	~ ~					1		20	4			3.00			12.00		
Midterm Exam 1 Practicals/Labs											0.00			0.00				
								20	4			5.00	5.00			70.00		
Home work-project								1				20.00			20.00			
Projects	5									100.00				0.00				
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Blidteen	dtering - terring - terrin								1	1 2.00					2.00			
Others										0						0.00		
Einal Ex	kams								10	0.00			2.00			2.00		
Total W	ork Lo	bad													· ·	145.00		
Eetalse	assurement and Evaluation reeningues esec in the														4	4.83		
ECTS C	Credit of the Course														Ę	5.00		
25				CON	TRIB		N O	F LE		ING	ουτα		S TO I	PROG	GRAM	ME		
										ATIO								
	P	Q1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16	
ÖK1	0		0	5	4	1	0	0	4	2	0	2	0	0	0	0	0	
	Ŭ																	
ÖK2	0		0	5	4	1	0	0	4	2	0	2	0	0	0	0	0	
ÖK2 ÖK3			0	5 5	4	1	0	0	4	2 2	0 0	2 2	0	0 0	0	0	0	

ÖK5	0	0	5	4	1	0	0	4	2	0	2	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib 1 very low ution Level:					2 low			3 Medium			4 Higl	า	5 Very High			