	VIBRATION	AND	NOISE IN VEHICLES						
1	Course Title:	VIBRATI	ON AND NOISE IN VEHICLES						
2	Course Code:	OTO513	5						
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:	Prof. Dr.	MURAT YAZICI						
15	Course Lecturers:	Dr. Yüce	I CAN						
16	Contact information of the Course	myazici@	uludag.edu.tr						
	Coordinator:		endislik Fakültesi, Otomotiv Mühendisliği Bölümü, 16059 Kampüsü, Bursa.						
17	Website:								
18	Objective of the Course:	hardness	ching the basic information about vibration, noise and in vehicles, it is ensured that students gain the ability to comfort parameters during driving.						
19	Contribution of the Course to Professional Development:		lent develops basic knowledge of vibration, noise and ss issues in vehicles.						
20	Learning Outcomes:								
		1	Basic physical risk factors						
		2	Noise and vibration regulations in terms of occupational health and safety						
		3	Noise control calculations						
		4	Mechanical vibrations and vibration damping mechanisms						
		5	Vibrations and damping in vehicles						
		6							
		7							
		8							
		9							
		10							
21	Course Content:								
		Co	ourse Content:						
	Theoretical		Practice						
1	The aim of the lesson, student achievinformation about the general proces Physical risk factors basic expression	ss.							
2	Physical risk factors: Noise								
3	Physical risk factors: Vibration								
4	Other physical risk factors								

5	Occupa and the							nt											
6	Noise co Loudnes and nois	ss and	noise	meas															
7	Noise co	s of n	oise or	peop	le														
8	Noise co	ontrol: al and e	Sounc	d pow	er leve tal nois	ls of se sou	rces												
9	Noise co	ontrol:	Sound	prop	agatio	n													
10	Numerio of sound	tions o	f prop	agatic	n														
11	How is r	provi	ded?																
12	Vibratio material	mecha	anical																
13	Vibratio applicat	tions a	nd sa	mple															
14	Vibratio element		ehicles	s and	vehicle	e dam	ping												
22	Textbooks, References and/or Other Materials:									* Matthew Harrison, Vehicle Refinement Controlling Noise and Vibration in Road Vehicles, SAE, 2004									
23	Assesm	ent																	
TERM L	LEARNIN	G ACTI	VITIES	3		N F	IUMBI	WE	WEIGHT										
Activit	Activites							1	Number				ation (Total Work Load (hour)					
Fhane	etisal					1		60	60! 0 0 3.00 42.00					42.00					
Practic	als/Labs							()			0.00		0.00					
Colf talls	bydłyoanolf r	TEPP (atigar) I	Learn	ing Act	tivities	to	40	! 0 0			9.00	9.00			126.00			
Homev	works							1	l			8.00			8.00				
Pontida	sution of	Final E	xam to	o Suc	cess G	rade		600	60000 0.00						0.00				
Field S	Studies							(0 0.00 0.00										
Meder	ne nya ma	nd Eva	aluatio	n Tec	hnique	s Use	d in th	ne It is	done	with w	vritten e	xam9(l	Midter	n, Hon	n 2 w9rk a	nd			
	Others									0 0.00 0.00									
	FIZA EKECTS / WORK LOAD TABLE									1 2.00 2.00									
Total Work Load													182.00						
Total work load/ 30 hr ECTS Credit of the Course														6.00					
ECTS (Credit of	the Co	urse												6.00				
25			CON	TRIE	BUTIC	ON O				OUTC	OME:	S TO I	PROC	SRAM	ME				
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1	PQ11	PQ12	PQ1	PQ14	PQ15	PQ16			
ÖK1	3	4	4	4	3	2	2	3	2	3	3	4	4	3	2	3			
ÖKS			1	1								4	1						
ÖK2	3	4	4	4	3	2	2	3	2	3	3	4	4	3	2	3			

ÖK3

ÖK4

ÖK5	3	4	4	4	3	2	2	3	2	3	3	4	4	3	2	3
Contrib ution Level:	1 \	/ery			ning C	bjec		s P Vledi			m Qu 4 Higl	alifica 1	itions		y High	