	VEH	ICLES	MECHANICS							
1	Course Title:	VEHICL	HICLES MECHANICS							
2	Course Code:	EHAZ204								
3	Type of Course:	Compuls	sory							
4	Level of Course:	Short Cycle								
5	Year of Study:	2								
6	Semester:	3								
7	ECTS Credits Allocated:	4.00								
8	Theoretical (hour/week):	2.00								
9	Practice (hour/week):	0.00								
10	Laboratory (hour/week):	2								
11	Prerequisites:	-								
12	Language:	Turkish								
13	Mode of Delivery:	Face to	face							
14	Course Coordinator:	Prof. Dr.	RIDVAN ARSLAN							
15	Course Lecturers:	Meslek Yüksekokulları Yönetim Kurullarının görevlendirdiği öğretim elemanları.								
16	Contact information of the Course Coordinator:	Prof. Dr. Rıdvan Arslan (ridvan@uludag.edu.tr, 2942341)								
17	Website:									
18	Objective of the Course:	To teach and analyse of vehicle dynamics								
19	Contribution of the Course to Professional Development:	To provide students with knowledge and skills about Vehicle mechanics that they can use in their professional lives								
20	Learning Outcomes:									
		1	To be able to calculate the vehicle and the vehicle s aerodynamics forces and torques							
		2	To be able to do calculations of clutches, gear box and shaft and differential gear ratios							
		3	To be able to do wheel and brake size account and understand linear movement of the motor vehicle and engine characteristics							
		4	To make calculations of yaw, roll and glide accounts, Prelayout geometry, the suspension system and Wheel steering angle							
		5	To calculate the resistance forces of the vehicle during the transactions							
		6								
		7								
		8								
		9								
		10								
21	Course Content:		ource Centents							
\\/a = 1	Theoretical	Co	ourse Content:							
	Theoretical	atonas =	Practice .							
1	Rolling resistance, acceleration resistance, transmission resistance	siance, alf								

2	the phy resista resista	nce, th		al forc	es, aer											
3	+	otal resistance														
4	Motion transmission clutches, torque and power calculations, power, power transmission, electric clutch, reading table value, Power and torque transmission, gear ratio, the drive force transmission efficiency, mechanical gear box, automatic gear box															
5	_		e move													
6	Dynam	Dynamic and static loading of axes														
7	Vehicle	Vehicle movement equations														
8	Repea	ing co	urses a	and m	idterm	exam										
9	Maxim	ım Ac	celerati	on												
10	Motion resista and lat vehicle	nce to eral sli	of the ve motion iding, si	in vel	hicles,	vehicl	es yav	W								
11	Hydrau elemer		tems, h	nydrau	ılic sea	lling										
12	empirio	al stat	ements	abou	it the b	rake s	system	1								
13	distribu	tion a	ns, Path nd cont					┸								
	Activites									Imber Duration (hou				` '	Total Work Load (hour)	
Theore	etical							NC C∉	1: ₄ 978- etinkav	975-25 a. Seli	3-197-0 m, 1999	2.00 Lasit	Meka	niăi. No	28.00 bel Yayır	nları
Practic	als/Lab	3							14	<u>u, oon</u>	111, 1000	2.00			28.00	
S A3 stı	udysanar	ре фе	ration						7			5.00			35.00	
Homev	works								1			15.00			15.00	
Mi8les	ts m Exam					1		40	0.00							
Field S	Studies															
	m exam work-pro	Biect				О)	0.0	do			5.00			5.00	
Others									1		4.00				4.00	
	Exams 2								00.00			5.00			5.00	
	Vork Loa		,		J			\dashv							4.00	
Satzleser@feade/ 30 hr								Щ							4.00	
	CTS Credit of the Course														4.00	
Total									00.00							
Measurement and Evaluation Techniques Used in the Course Measurement and evaluation is carried out according to the priciples of Bursa uludag University Associate and Undergraduate Education Regulation.																
24	ECTS	/ WC	ORK L	OAD	TAB	LE										
25 CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS																
	PC	1 PQ	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1	PQ14	PQ15	PQ16
ÖK1	5	4	0	3	0	5	3	4	0	4	0	0	0	0	0	0
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ÖK2	5	4	0	3	0	5	3	4	0	4	0	0	0	0	0	0
ÖK3	5	4	0	3	0	5	2	4	0	4	0	0	0	0	0	0
ÖK4	5	4	0	3	0	5	3	4	0	4	0	0	0	0	0	0
ÖK5	5	3	0	3	0	5	2	4	0	0	0	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib 1 very low ution Level:			2	2 low		3 Medium			4 High			5 Very High				