	VEHICLE COM	MUNIC	CATION TECHNOLOGIES							
1	Course Title:	VEHICLI	ICLE COMMUNICATION TECHNOLOGIES							
2	Course Code:	EHAS202								
3	Type of Course:	Optional								
4	Level of Course:	Short Cycle								
5	Year of Study:	2								
6	Semester:	3								
7	ECTS Credits Allocated:	3.00								
8	Theoretical (hour/week):	2.00								
9	Practice (hour/week):	0.00								
10	Laboratory (hour/week):	0								
11	Prerequisites:	none								
12	Language:	Turkish								
13	Mode of Delivery:	Face to face								
14	Course Coordinator:	Öğr. Gör. CAFER KAPLAN								
15	Course Lecturers:	Meslek Yüksekokulları Yönetim Kurullarının görevlendirdiği öğretim elemanları.								
16	Contact information of the Course Coordinator:	Öğr. Gör Cafer KAPLAN Bursa Uludağ Üniversitesi Teknik Bilimler MYO Hibrid ve Elektrikli Taşıtlar Prog. Görükle / Bursa								
17	Website:									
18	Objective of the Course:	Serial communication structure, I2C and SPI communication, especially Can, FlexRay communication, which are widely used in today's vehicles, will be discussed in the course. Communication protocols are exemplified by microcontroller based and it is aimed that students perceive the communication communication structure completely.								
19	Contribution of the Course to Professional Development:	Students who successfully complete this course; • Will be able to master serial communication terminology • Apply SPI, I2C, Can and FlexRay communication protocols with microcontrollers.								
20	Learning Outcomes:									
		1	Will be able to master serial communication terminology							
		2	Apply SPI, I2C, Can and FlexRay communication protocols with microcontrollers.							
		3								
		4								
		5								
		6								
		7								
		8								
		9								
		10								
21	Course Content:									
		Co	ourse Content:							
Week	Theoretical Practice									

1	Communication network requirement vehicles	s of								
2	The purpose of use of the communication network in vehicles	ation								
3	Communication network requirement vehicles	s of								
4	Communication structure of vehicles									
5	Communication network structure of	vehicles								
6	Examination of network structures us vehicles	ed in								
7	SPI Communication Structure SPI communication protocol Example	es								
8	Midterm Exam									
9	I2C Communication Structure I2C communication protocol I2C Communication Examples									
10	I2C haberleşme uygulamaları									
11	CAN Communication Structure									
Activit			N	umber	Duration (hour)	Total Work Load (hour)				
Th fe3 ore	Folen Ray Communication Structure		14		2.00	28.00				
Practica	als/Labs		0		0.00	0.00				
Self stu	dy and preperation		2		14.00	28.00				
Homew	vorks		1			15.00				
Project	iviaterials.		Sevi	ersitesi rayımları, r ndik	0.00 Dayat,	0.00				
Field S	tudies		0		0.00	0.00				
Midtern	n exams Assesment		714	uzzaman, r no	15.00	15.00				
Others			0		0.00	0.00				
Final E		R	1			4.00				
-	/ork Load					90.00				
	on load oo m	0	0.00			3.00				
	Credit of the Course					3.00				
Final E	xam	1	60.0							
Total 3				100.00						
Contribution of Term (Year) Learning Activities to Success Grade				40.00						
Contrib	ution of Final Exam to Success Grade)	60.00							
				100.00						
			Measurement and evaluation is carried out according to the priciples of Bursa uludag University Associate and Undergraduate Education Regulation.							
24	ECTS / WORK LOAD TABLE									

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	1	3	2	3	3	2	3	4	1	0	0	0	0	0	0	0
ÖK2	3	2	3	3	2	1	1	1	1	0	0	0	0	0	0	0
ÖK3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib 1 very low ution Level:		2	2 low	low 3			3 Medium		4 High		5 Very High					