	HYDF	RAULI	C PNEUMATIC						
1	Course Title:	HYDRAU	ULIC PNEUMATIC						
2	Course Code:	ELEZ202	2						
3	Type of Course:	Compuls	SOFY						
4	Level of Course:	Short Cy	-						
5	Year of Study:	2							
6	Semester:	4							
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:	None							
12	Language:	Turkish							
13	Mode of Delivery:	Face to	face						
14	Course Coordinator:	Öğr.Gör	. MEHMET ŞEN						
15	Course Lecturers:	Meslek Yüksekokulları Yönetim Kurullarının görevlendirdiği öğretim elemanları.							
16	Contact information of the Course Coordinator:	mehmetsen@uludag.edu.tr U.Ü. Teknik Bilimler Meslek Yüksek Okulu Elektrik Programı- Görükle Kampüsü							
17	Website:								
18	Objective of the Course:	To understand the working principles of hydraulic and pneumatic control systems, these control systems circuit edit and establish a hydraulic circuit in accordance with the criteria.							
19	Contribution of the Course to Professional Development:	Planning, development and implementation steps in the field of profession to be able to execute together with the security rules.							
20	Learning Outcomes:								
		1	Explains basic hydraulic principles and solve numerical problems.						
		2	Explains the elements and functions of hydraulic circuit.						
		3	Draws the symbols of hydraulic circuit components and circuits establishes.						
		4	Remembers the failures and maintenance methods in hydraulic circuit elements.						
		5	Analyses ways to provide hydraulic circuit elements and criteria in order.						
		6	Explains basic pneumatic principles and solve numerical problems.						
		7	Explains the elements and functions of pneumatic circuit.						
		8	Draws the symbols of pneumatic circuit components and circuits establishes.						
		9	Remembers the failures and maintenance methods in pneumatic circuit elements.						
		10	Analyses ways to provide pneumatic circuit elements and criteria in order.						
21	Course Content:								
		Co	ourse Content:						
Week	Theoretical		Practice						

1	Lessons to inform and identifying hydraulic circuit elements.																			
2	Creating hydraulic circuit diagram.								Cre	Creating hydraulic circuit diagram.										
3	Detecting failures in hydraulic systems.								То	To detect hydraulic failure.										
4	Troubleshooting hydraulic failure.								То	detec	t and tr	oubles	hhot hy	draulic	failure.					
5	Identifying pneumatic circuit elements.																			
6	Creating pneumatic circuit diagram.									Creating pneumatic circuit diagram.										
7	Creati	ing	electr	o pne	umatio	c syste	ms.		Cre	Creating electro pneumatic systems.										
8	Creati	ing	electr	o pne	umatio	c syste	ms.		Cre	Creating electro pneumatic systems.										
9	Repea	atin	g cou	rses a	nd mi	dterm	exam													
10	Detec	ting	ı failuı	es in	pneur	natic s	ystem	s.	То	To detect pneumatic systems.										
11	Detecting failures in pneumatic systems. Troubleshooting pneumatic failure.									detec	t and tr	oubles	hoot pn	eumati	c failure	Э.				
12	To ma	ake	perio	dic che	ecks d	of syste	ems.		То	make	period	ic chec	ks of sy	stems						
13	To ma	ake	perio	dic ma	inten	ance of	f syste	ems.	То	make	period	ic chec	ks and	mainte	nance o	of syster	ns.			
14	· · ·									To make fault detection and repair the defective machine.										
22 Textbooks, References and/or Other Materials:								Kü Ge Pn	Michael J.P. ve Ashby J.G. Güç Hidroliği, 1994. Küçük M. Hidrolik ve Pnömatik, 2003. Genel Hidrolik (M. Emin ZORKUN) Pnömatik (Peter PATİENT) Hidrolik Kumanda Sistemleri (M. Emin ZORKUN)											
Activites								1	Numb	er		Dura	ition (Total Work Load (hour)						
Midtorencexam 2									40	Q0			2.00	2.00 28.00						
Practica	Practicals/Labs									4			2.00		28.00					
Seinst	Self Study kand preperation									0.60				0.00			0.00			
Homew	neworks									0					(0.00				
Project	cts 3									100.00				0.00			0.00			
Field St										0				0.00			0.00			
Midtern	erre exams									2						44.00				
Others	rs									0					0.00					
FITA E	al Exams										100.00					20.00				
	Fotal Work Load															164.00				
Total work load/ 30 hr									Un	Undergraduate Education Regulation.										
ECTS (Credit o	of th	ne Co	urse						4.00										
25	25 CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS																			
	P	Q1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16			
ÖK1	4		3	3	0	3	3	4	3	4	3	3	4	0	0	0	0			
ÖK2	3		0	0	0	0	0	0	4	0	0	0	0	0	0	0	0			
ÖK3	4		4	3	4	0	0	0	0	0	0	3	0	0	0	0	0			
ÖK4	4		5	0	0	0	0	0	4	3	0	0	0	0	0	0	0			

LO: Learning Ob Contrib 1 very low 2 low ution					-	<u> </u>	s F Medi		rogram Qualifica 4 High			tions 5 Very High				
ÖK10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0