	HYDF	ROULI	C PNOUMATIC						
1	Course Title:	HYDRO	ULIC PNOUMATIC						
2	Course Code:	EKLS21	0						
3	Type of Course:	Optional	1						
4	Level of Course:	Short Cy	/cle						
5	Year of Study:	2							
6	Semester:	4							
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:	r. Rasim KADERLİ							
15	Course Lecturers:	Meslek Yüksekokulları Yönetim Kurullarının görevlendirdiği öğretim elemanları.							
16	Contact information of the Course Öğr.Gör. Rasim KADERLİ rkaderli@uludag.edu.tr Teknik Bil. M.Y.O Makine Prog. Tlf.224 2942375								
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:	Learning hydraulic-pneumatic systems.							
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	purse Content:						
Week	Theoretical		Practice						

1	Lessons to inform and identifying hydraulic circuit elements.																			
2	Crea	ating	hydra	ulic ci	rcuit c	liagran	n													
3	Dete	ecting	failu	res in	hydra	ulic sy:	stems													
4	Trou	ıbles	hootin	ıg hyd	raulic	failure														
5	Iden	tifyin	g pne	umati	c circu	uit elen	nents													
6	Crea	ating	pneur	matic (	circuit	diagra	am													
7	Crea	ating	electr	o pne	umati	c syste	ms													
8	Creating electro pneumatic systems																			
9	Rep	eatin	g cou	rses																
10	Dete	ecting	g failu	res in	pneur	natic s	ystem	s												
11	Trou	ıbles	hootin	g pne	umati	c failur	e													
12	To n	nake	perio	dic ch	ecks o	of syste	ems													
13	To n	nake	perio	dic ma	ainten	ance o	f syste	ems												
14		It det	ection	and r	epairi	ng the	defec	tive												
22	Textbooks, References and/or Other Materials:										1- Michael J.P. ve Ashby J.G. Güç Hidroliği, 1994. 2- Küçük M. Hidrolik ve Pnömatik, 2003.									
23	Asse	esme	nt																	
Activit	Activites								- 1	Numb	er		Dura	ation (		Total Work Load (hour)				
<del>Quiz</del> Theore	tical									14			2.00			28.00				
Practic			ct							0			0.00			0.00				
Self stu			epera	tion			<u> </u>			13			2.00		26.00					
Homey							lo			0			0.00			0.00				
Buses	Se Gr	ade	<del>ciiii (</del>	<del>r car,</del>	LCarri	<del>mg 7.o</del>	aviaco	10	┰	<del>).00 -</del> 1			10.00	 )		10.00				
Field S										0			0.00		0.00					
Midterr Total	m exa	ms							Τ.	1			10.00	)	10.00					
Others										0 0.00						0.00				
vieasu Course	<del>reme</del> xams	nı an	u Eva	nuano	n rec	nnque	<del>s ose</del>	u III ti	le T	knowledge they have obtained about the profes							15 00 they			
Total V																99.00	tiley			
Total w	vork l	oad/	30 hr						th	workplace and to gain experience in addition theoretical knowledge.										
ECTS	Credi	t of tl	ne Co	urse						3.00										
25				CON	TRIE	UTIC	N O			NING ALIFIC			S TO	PROC	SRAM	ME				
		PQ1	PQ2	PQ3	PO4	PQ5	PQ6	P07	PO	B PQ9	PQ1	PQ11	PQ12	PQ1	PQ14	PQ15	PQ16			
			. QZ	. 40	. 47	. 40	. 40				0			3			. 410			
ÖK1		0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0			
																	1			

25	QUALIFICATIONS  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	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0
ÖK2	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0
ÖK3	4	0	0	0	0	5	0	0	0	0	0	4	0	0	0	0
ÖK4	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0

ÖK5	0	0	0	0	0	5	0	5	0	0	0	0	0	0	0	0
ÖK6	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0
ÖK7	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0
ÖK8	4	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0
ÖK9	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0
ÖK10	0	0	0	0	0	5	0	5	0	0	0	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib 1 very low ution Level:			2 low			3 Medium			4 High			5 Very High				