	HYDR	ROULI	C PNOUMATIC									
1	Course Title:	HYDRO	ULIC PNOUMATIC									
2	Course Code:	EKLS21	0									
3	Type of Course:	Optional	vtional									
4	Level of Course:	Short Cy	/cle									
5	Year of Study:	2										
6	Semester:	4	4									
7	ECTS Credits Allocated:	3.00	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. Gö	r. Rasim KADERLİ									
15	Course Lecturers:	Meslek Yüksekokulları Yönetim Kurullarının görevlendirdiği öğre elemanları.										
16	Contact information of the Course Coordinator:	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	ourse Content:									
Week	Theoretical		Practice									

1			to info		d ide	ntifying	hydra	aulic										
2	Creat	ting l	hydra	ulic ci	rcuit c	diagran	า											
3	Dete	cting	failur	res in l	hydra	ulic sys	stems											
4	Trouk	blesh	nootin	g hyd	raulic	failure												
5	Ident	ifyin	g pne	umatio	circu	uit elem	nents											
6	Creat	ting	pneur	natic o	circuit	diagra	ım											
7	Creat	ting	electr	o pne	umati	c syste	ms											
8	Creat	ting	electr	o pne	umati	c syste	ms											
9	Repe	eating	g cou	rses														
10	Detec	cting	failur	res in	pneur	natic s	ystem	s										
11	Trouk	olesh	nootin	g pne	umati	c failur	e											
12	To m	ake	perio	dic che	ecks o	of syste	ems											
13	To m	ake	perio	dic ma	inten	ance o	f syste	ems										
14	Fault mach		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	sme	nt															
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20		QUALIFICATIONS														
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ÖK2	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0
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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	2 low		3 Medium			4 High			5 Very High				