HYDRAULIC PNEUMATIC											
1	Course Title:	HYDRAU	JLIC PNEUMATIC								
2	Course Code:	MKNZ20	16								
3	Type of Course:	Compuls	ory								
4	Level of Course:	Short Cy	cle								
5	Year of Study:	2									
6	Semester:	4									
7	ECTS Credits Allocated:	4.00									
8	Theoretical (hour/week):	3.00									
9	Practice (hour/week):	0.00									
10	Laboratory (hour/week):	1									
11	Prerequisites:	None									
12	Language:	Turkish									
13	Mode of Delivery:	Face to f	ace								
14	Course Coordinator:	Öğr.Gör.	RASIM KADERLİ								
15	Course Lecturers:	Öğr. Gör	. ESRA ÖZDEMİR ve Öğr. Gör. KENAN SAKA								
16	Contact information of the Course Coordinator:	esraozde Yenişehi	emir@uludag.edu.tr / 0506 575 46 93 /  Uludağ Üniversitesi r İbrahim Orhan MYO								
17	Website:										
18	Objective of the Course:	To under control s hydraulic	rstand the working principles of hydraulic and pneumatic ystems, these control systems circuit edit and establish a circuit in accordance with the criteria.								
19	Contribution of the Course to Professional Development:										
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	21 Course Content:										
		Co	urse Content:								
Week	Theoretical		Practice								
1	Lessons to inform and identifying hyd circuit elements.	draulic									
2	Creating hydraulic circuit diagram.		Creating hydraulic circuit diagram.								

3	Detecting failures in hydraulic systems.																			
4	Troubleshooting hydraulic failure.									To detect and troubleshoot hydraulic failure.										
5	Identifying pneumatic circuit elements.																			
6	Creating pneumatic circuit diagram.									Creating pneumatic circuit diagram.										
7	Creating electro pneumatic systems.									Creating electro pneumatic systems.										
8	Creating electro pneumatic systems.									Creating electro pneumatic systems.										
9	Repe	atin	g cou	rses a	nd mi	dterm	exam													
10	Detec	cting	ı failuı	res in j	pneur	natic s	ystem	ns.												
11	Troub	olesł	nootin	g pne	umati	c failur	e.		Тс	To detect and troubleshoot pneumatic failure.										
12	To ma	ake	perio	dic che	ecks d	of syste	ems.			·										
13	To ma	ake	perio	dic ma	inten	ance of	f syst	ems.	Тс	o make	period	lic chec	ks and	mainte	enance	of syster	ns.			
14	To ma fault o mach	ake dete iine.	ction	and re	epair t	he defe	ective	)	To fa	o make ult dete	ection a	and repa	air the c	lefectiv	/e macł	nine.				
22	Textb Mater	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	Asses	sme	nt																	
TERM L	EARN	ING	ACTI	VITIES	;		1	NUMBE	E W	WEIGHT										
Midtern	n Exar	m						\ 	30	30.00										
								<b>`</b>								<b>-</b>				
Activites									Number Duration (hour)   I otal Wo Load (ho						Vork nour)					
Toteodre	tical						4	1	1	10400			2.00	2.00 28.00						
Practica	als/Lal	bs								14			2.00	2.00 28.00						
Self stu	idy and	de d pr	epera	ition						13		1.00		13.00						
Homew	vorks									0				0.00			0.00			
<b>萨哈哈</b>	S								1	100.00				0.00			0.00			
Field S	tudies									0				0.00			0.00			
Midtern	n exar	ns							П	1						8.00				
Others										2			4.00		8.00					
Final E	nal Exams										1				10.00					
Total W	Vork Lo	oad								95.00										
Total work load/ 30 hr										3.17										
ECTS (	CTS Credit of the Course										4.00									
25	5 CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS																			
	P	Q1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ	B 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	0	0	0	0	0			
		L.																		

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 ution Level:	trib 1 very low on vel:			2 low			3 Medium			4 High			5 Very High			