	HYDF	RAULI	C PNEUMATIC							
1	Course Title:	HYDRA	ULIC PNEUMATIC							
2	Course Code:	MKNZ20	06							
3	Type of Course:	Compuls	sory							
4	Level of Course:	Short Cy	ycle							
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	face							
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:	esraozdemir@uludag.edu.tr / 0506 575 46 93 / Uludağ Üniversites Yenişehir İbrahim Orhan MYO								
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:									
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			Practice							
1	Lessons to inform and identifying hy circuit elements.	draulic								
2	Creating hydraulic circuit diagram. Creating hydraulic circuit diagram.									

3	Detecting failures in hydraulic system	ns.											
4	Troubleshooting hydraulic failure.		To detect and troubleshoot hydraulic failure.										
5	Identifying pneumatic circuit element	S.		·									
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	Repeating courses and midterm exa	m											
10	Detecting failures in pneumatic syste	ems.											
11	Troubleshooting pneumatic failure.		To detect and trou	oleshoot pneumatic failu	ire.								
12	To make periodic checks of systems												
13	To make periodic maintenance of sy	stems.	To make periodic of	checks and maintenance	e of systems.								
14	To make fault detection and repair the defection machine.	/e	To make fault detection and	repair the defective made	chine.								
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	Assesment												
TERM L	LEARNING ACTIVITIES	NUMBE R	WEIGHT										
Midterr	m Exam	1	30.00										
Activit	tes	l ₂	Number	Duration (hour)	Total Work Load (hour)								
Totedre	etical	4	100400	2.00	28.00								
	als/Labs		14	2.00	28.00								
Self stu	udy and preperation		13	1.00	13.00								
Homev	vorks		0	0.00	0.00								
Profile ct	ts		100.00	0.00	0.00								
Field S			0	0.00									
Midterr	n exams		1	8.00 8.00									
Others			2	8.00									
Final E	xams		1	10.00									
	Vork Load				95.00								
Total w	vork load/ 30 hr				3.17								
ECTS	Credit of the Course				4.00								
25	CONTRIBUTION		25 CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS										

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	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
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	Medi	ium	4 High			5 Very High				