	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	/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	0.00							
10	Laboratory (hour/week):	1	1							
11	Prerequisites:	None								
12	Language:	Turkish								
13	Mode of Delivery:	Face to	face							
14	Course Coordinator:	Öğr.Gör. ESRA ÖZDEMİR								
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	Theoretical		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	ms.									
11	Troubleshooting pneumatic failure.		To detect and troul	oleshoot pneumatic failu	re.						
12	To make periodic checks of systems										
13	To make periodic maintenance of sy	stems.	To make periodic of	hecks and maintenance	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	12	Number	Duration (hour)	Total Work Load (hour)						
Tota	etical	4	100400	2.00	28.00						
	als/Labs		14	2.00	28.00						
Self stu	udy and preperation		13	1.00	13.00						
Homew	vorks		0	0.00	0.00						
萨姆 ct	ts		100.00	0.00	0.00						
Field S			0	0.00							
Midterr	n exams		1	8.00 8.00							
Others			2	4.00 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		RNING OUTCO	MES TO PROGRAM	име						

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	2 low		3	3 Medium		4 High			5 Very High				