	PNEUMATI	C POV	VER TRANSMISSION						
1	Course Title:	PNEUM	ATIC POWER TRANSMISSION						
2	Course Code:	MAK404	5						
3	Type of Course:	Optional							
4	Level of Course:	First Cyc	le						
5	Year of Study:	4							
6	Semester:	7							
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:	-							
12	Language:	Turkish							
13	Mode of Delivery:	Face to f	face						
14	Course Coordinator:	Öğr.Gör.	Dr. MESUT ŞENGİRGİN						
15	Course Lecturers:								
16	Contact information of the Course Coordinator:	smesut@ U.Ü. MM	smesut@uludag.edu.tr , 0-224-2941987 U.Ü. MMF MAk. Müh. Böl. Görükle-BURSA						
17	Website:								
18	Objective of the Course:	The introduction and operation procedure of pneumatic system devices. Sample circuits and application and the computer simulation of basic pneumatic circuits.							
19	Contribution of the Course to Professional Development:								
20	Learning Outcomes:								
		1	Students learn basic concepts of pneumatic systems						
		2	Students learn basic elements and properties of pneumatic systems-compressor, valve, cylinder etc.						
		3	Students are able to select the elements of pneumatic systems						
		4	Students are able to install basic pneumatic circuit						
		5	Student are able to use proper programs for pneumatic circuit design						
		6							
		7							
		8							
		9							
		10							
21	Course Content:								
		Co	ourse Content:						
Week	Theoretical		Practice						
1	Introduction of basic concepts in pr systems	eumatic							
2	Advantages and disadvantages of p systems	neumatic							

3	Prepara charact svstem	ation o eristics s	f press s of coi	urizec npres	l air, ty sors in	pes ar pneu	nd matic											
4	Air-con	rs and	their o	charact	teristic	s												
5	Characteristics of pneumatic cylinders and determination of cylinder dimentions																	
6	Control pneuma	d theii	r chara	cterist	ics in													
7	Pneum	atic se	nsors															
8	Path-st	ep gra	phics i	n pnei	umatic	syster	ns											
9	Sample	circui	t analy	sis														
10	Repeat	ing co	urses a	ind mi	dterm	exam												
11	Installa	tion of	sample	e basi	c pneu	matic	circui	t										
12	Installa	tion of	sample	e basi	c pneu	matic	circui	t										
13	Introdu analyzi	ction o	f comp tems a	uter p nd an	rogram alyses	ns for of mo	dels											
14	Analyses of models																	
22	Textboo Materia	eferenc	es an	id/or Ot	ther		1. Çe 2. Az 3. 4. Eč	 Werner Deppert ve Kurt Stoll, Pnömatik Kumandalar, Çev:Atilla Bir, Vogel yay.1997. Werner Deppert ve Kurt Stoll, Pnömatikle Maliyetlerin Azaltılması, Çev: Osman Türkay ve ark., Festo-Didaktik eğitim notları Fatih Özcan ve ark. Pnömatik Akışkan Gücü, Mert Eğitim Yayınları 1986 										
Activites									Numb	ber		Dura	Duration (hour)			Load (hour)		
Theoretical R									14 2.00					28.00				
Practicals/Labs								(0				0.00			0.00		
Selfstu	Self study and preperation								0.44				3.00			42.00		
Homew	Homeworks									0					0.00			
Project	Yojectš ^{am}											0.00	0.00			0.00		
Field St	Field Studies											0.00	0.00			0.00		
MACTERNA CARACTERIT (TEAT) LEATHING ACTIVITIES TO													0.00			0.00		
	Contribution of Final Exam to Success Grade									0 60,00					10.00			
		Ч												90.00				
Measur	Measurement and Evaluation Techniques Used in the														3.00			
ECTS Credit of the Course														3.00				
25			CON				FIF			ουτα		S TO I		- RAM	MF			
25			CON				(QUA	LIFIC	ATIO	NS	0101	NOC					
	PQ	1 PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16		
ÖK1	4	4	5	4	3	3	4	2	2	5	4	3	4	5	0	0		
ÖK2	4	4	5	4	3	3	4	2	2	5	4	3	4	5	0	0		
ÖK3	4	4	5	4	3	3	4	2	2	5	4	3	4	5	0	0		
ÖK4	4	4	5	4	3	3	4	2	2	5	4	3	4	5	0	0		

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