		FUZZ	Y LOGIC						
1	Course Title:	FUZZY L	OGIC						
2	Course Code:	EEM610	2						
3	Type of Course:	Optional							
4	Level of Course:	Third Cy	cle						
5	Year of Study:	1							
6	Semester:	2							
7	ECTS Credits Allocated:	6.00							
8	Theoretical (hour/week):	3.00							
9	Practice (hour/week):	0.00							
10	Laboratory (hour/week):	0							
11	Prerequisites:	None							
12	Language:	Turkish							
13	Mode of Delivery:	Face to f	ace						
14	Course Coordinator:	Prof. Dr.	FAHRİ VATANSEVER						
15	Course Lecturers:								
16	Contact information of the Course Coordinator:	Adres: Elektrik-Elektronik Mühendisliği bölümü, No:311 Tel: (224) 294 09 05 Web: http://home.uludag.edu.tr/~fahriv E-posta:fahriv@uludag.edu.tr							
17	Website:								
18	Objective of the Course:	To gain ability modeling-analyzing-designing fuzzy systems with understanding fuzzy set and its theory and designing fuzzy controller for applications							
19	Contribution of the Course to Professional Development:	Effective use of fuzzy logic in the professional area							
20	Learning Outcomes:								
		1	To gain ability to analyze fuzzy systems						
		2	To gain ability to design fuzzy systems						
		3	To gain ability to implement fuzzy systems						
		4	To gain ability to analyze-synthesis fuzzy systems with software						
		5							
		6							
		7							
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		9							
		10							
21	21 Course Content:								
14/		Co	burse Content:						
VVEEK	I neoretical	01000	Practice						
1	Classics of fuzzy logic and application	areas							
2									
3	Classical and fuzzy logic theories								
4	Classical and fuzzy relations								

6	Membership functions, fuzzification, defuzzification																	
7	Logic and fuzzy systems																	
8	Gen	General review																
9	Fuzz	Fuzzy system modeling and analysis																
10	Fuzz	Fuzzy control systems analysis and design																
11	Fuzz	zy co	ntrol s	system	ns ana	lysis a	nd de	sign										
12	Fuzz	Fuzzy PID controller design																
13	Adar desi	Adaptive fuzzy control systems analysis and design																
14	Fuzzy control applications																	
22	Textbooks, References and/or Other Materials:							1. Jo 2. Pr 3. Sy	<ol> <li>Ross, T.J., Fuzzy Logic with Engineering Applications, John Wiley &amp; Sons, 2004.</li> <li>Wang, L.X., A Course in Fuzzy Systems and Control, Prentice Hall, 1997.</li> <li>Kasabov, N.K., Foundations of Neural Networks, Fuzzy Systems, and Knowledge Engineering, MIT Press, 1998.</li> </ol>									
23	Asse	esme	ent															
TERM L						IUMBE	W	WEIGHT										
Midtern	n Exa	am					1		40	40.00								
Quiz	Quiz						0.	0.00										
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Practica	als/La	abs	erm (	Year	eam		Wittes	to	14	0 0.00 0.			0.00					
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Mi <u>e</u> ttern										1			24.00	24.00			24.00	
Others										0			0.00	0.00				
Final E	xams	;								1			30.00	30.00			30.00	
Total W	Vork L	_oad															180.00	
Total w	ork lo	oad/ 3	30 hr														6.00	
ECTS (	TS Credit of the Course													6.00				
25 CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS																		
	I	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	B PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16	
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ÖK2	ť	5	5	5	5	0	0	0	0	0	0	0	0	0	0	0	0	
ÖK3	į	5	5	5	5	0	0	0	0	0	0	0	0	0	0	0	0	
ÖK4	ť	5	0	5	5	0	0	0	0	0	0	0	0	0	0	0	0	
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Contrib	1 very low	2 low	3 Medium	4 High	5 Very High
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Level:					