	ARTIF		INTELLIGENCE					
1	Course Title:	ARTIFIC	CIAL INTELLIGENCE					
2	Course Code:	END6122						
3	Type of Course:	Optional						
4	Level of Course:	Third Cycle						
5	Year of Study:	2						
6	Semester:	4						
7	ECTS Credits Allocated:	7.50						
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 face						
14	Course Coordinator:	Prof. Dr. NURSEL ÖZTÜRK						
15	Course Lecturers:							
16	Contact information of the Course Coordinator:	nursel@uludag.edu.tr +90 224 2942083 Uludağ Üniversitesi, Endüstri Mühendisliği Bölümü						
17	Website:							
18	Objective of the Course:	The objective of this course is to provide students the knowledge of Artificial Intelligence and related topics with engineering applications.						
19	Contribution of the Course to Professional Development:							
20	Learning Outcomes:							
		1	Will be able to understand knowledge of the artificial intelligence and related topics					
		2	Will be able to design an intelligent system with using expert system, fuzzy logic, neural network, etc.					
		3	Will be able to present an artificial intelligence project					
		4						
		5						
		6						
		7						
		8						
		9						
		10						
21	Course Content:	• • •						
14/		Co	burse Content:					
Week 1	Theoretical Fundamental principles of artificial intelligence		Practice					
2	Expert System, Knowledge Enginee General structure of expert system	ering,						
3	Knowledge representation technique Search techniques, Inference	es,						

4			f expe d chai		tems,	Forwa	rd cha	aining,									
5						tems, A home											
6		izzy sets, Properties of fuzzy sets, Fuzzy t operations															
7		zzy relations, Membership functions, zzification															
8		ference techniques, Defuzzification chniques															
9	Natu	Natural language, Fuzzy systems,															
10		uzzy systems, Application examples, Presentation of homework 2															
11	Midte	dterm Exam, Artificial neural networks															
12	Artific	Artificial neural networks															
13		rtificial neural networks, Application xamples, Presentation of homework 3															
14	Oral	pres	entati	on of	projec	cts											
22 Activit	Materials:							P. K. T. L. Al	N. Öztürk, "Artificial Intelligence Lecture Notes". P.H. Winston, "Artificial Intelligence". K. Parsaye, M. Chignell, "Expert Systems for Experts". T.J. Ross, "Fuzzy Logic With Engineering Applications" L.H. Tsoukalas, R.E. Uhrig, "Fuzzy and Neural Approaches in Engineering". S. Havkin. "Neural Networks". Number Duration (hour) Total Wor Load (hou						ns". /ork		
						w	WENGHT			3.00	3.00						
Practicals/Labs							0			0.00	0.00			0.00			
Self study and preperation							0	0.00 10.00 140.00									
Homeworks											3.00	.00 12.0		12.00			
Projects Final Exam							3	30,00			25.00	25.00			25.00		
Field Studies								0			0.00				0.00		
Midterm exams Contribution of Term (Year) Learning Activities to						7	1 70 00			2.50				2.50			
Others						_	0			0.00				0.00			
ପିର୍ଗିମୁନ୍ଦିମିର୍ଗିତା final Exam to Success Grade						3	30.00			3.50	3.50			3.50			
Total Work Load 225.00																	
Total work load/ 30 hr Measurement and Evaluation Techniques Used in the ECTS Credit of the Course												<del>7.50</del> 7.50					
<b>24</b>	1					TAB										7.50	
	<u> </u>	57											0 7 0 1				
25	25 CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS																
	P	2Q1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ	B PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16
ÖK1	0	)	0	5	0	0	0	0	0	5	0	0	5	0	0	0	0
ÖK2	0	)	0	5	4	5	0	0	0	5	0	0	5	0	0	0	0
ÖK3	0	)	0	0	0	0	5	5	5	0	0	4	5	0	0	0	0
			L	0: L	.earr	ning C	bjec	tives	5	PQ: P	rogra	m Qu	alifica	tions	5	1	•
L																	

Contrib ution	1 very low	2 low	3 Medium	4 High	5 Very High
Level:					