ARTIFICIAL INTELLIGENCE									
1	Course Title:	ARTIFIC	IAL INTELLIGENCE						
2	Course Code:	END6122							
3	Type of Course:	Optional							
4	Level of Course:	Third Cy	cle						
5	Year of Study:	1							
6	Semester:	2							
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 f	face						
14	Course Coordinator:	Prof. Dr.	NURSEL ÖZTÜRK						
15	Course Lecturers:								
16	Contact information of the Course Coordinator:		uludag.edu.tr +90 224 2942083 İniversitesi, 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						
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		5							
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21	21 Course Content:								
10.	T	Co	ourse Content:						
	Theoretical		Practice						
1	Fundamental principles of artificial intelligence	•							
2	Expert System, Knowledge Engineer General structure of expert system								
3	Knowledge representation technique Search techniques, Inference	es,							

4	Design of expert systems, Forward chaining, Backward chaining															
5	Probability and expert systems, Application examples, Presentation of homework 1															
	Fuzzy sets, Properties of fuzzy sets, Fuzzy set operations															
7	Fuzzy relations, Membership functions, Fuzzification															
	Inference techniques, Defuzzification techniques															
9	Natural language, Fuzzy systems,															
10	Fuzzy systems, Application examples, Presentation of homework 2															
11	Midterm Exam, Artificial neural networks															
12	Artificial	neura	l netwo	orks												
13	Artificial neural networks, Application examples, Presentation of homework 3															
14	Oral pre															
22 Activit	Textbooks, References and/or Other Materials:							P.I K. T., L.I Ap	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 Work							ns".
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ECTS (Credit of														7.50	
24	ECTS	/ WO	RK L	OAD	TAB	LE										
25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PQ ²	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16
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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
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LO: Learning Objectives PQ: Program Qualifications																

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