	ARTIF		INTELLIGENCE						
1	Course Title:	ARTIFICIAL 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 Bursa 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 applications.							
19	Contribution of the Course to Professional Development:	The contribution of the course to the professional development is to introduce the knowledge and applications about artificial intelligence, and to provide ability to apply the learned artificial intelligence techniques.							
20	Learning Outcomes:								
		1Will be able to understand knowledge of the artifi 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:	_							
		Co	burse Content:						
	Theoretical		Practice						
1	Fundamental principles of artificial intelligence, Expert system, General of expert system	structure							

2	Knowledge representation technique Search techniques, Inference, Forwa chaining, Backward chaining									
3	Design of expert systems, Probability and expert systems, Appl examples	ication								
4	Fuzzy sets, Properties of fuzzy sets, set operations	Fuzzy								
5	Fuzzy relations, Membership functior Fuzzification	ıs,								
6	Fuzzy inference techniques, Defuzzif techniques	fication								
7	Natural language, Fuzzy systems									
8	Fuzzy systems, Application examples	S								
9	Artificial neural networks									
10	Artificial neural networks									
11	Artificial neural networks, Application examples									
12	Deep learning									
13	Deep learning									
Activit			Number	Duration (hour)	Total Work Load (hour)					
Theore	ivialenais. ICA		Uygulaması, Atlas Yay.	3.00	42.00					
Practic	als/Labs		0	0.00	0.00					
Self stu	dy and preperation		S. 14. Sivanandam, S. S	uhaalai, S. N. Deep	al 49treduction					
Homev	vorks		3	5.00	15.00					
Project	ta		Wiley, 2010.	25.00	25.00					
Field S	Studies		0	0.00	0.00					
Midterr	n exams		Neural Networks and Artiliolal Intelligence, Oplass, 2017							
Others			0	0.00	0.00					
Final E	kams		20121.	3.00	3.00					
Total V	Vork Load				225.00					
Total w	ork load/ 30 hr				7.50					
ECTS	Credit of the Course				7.50					
	LEARNING ACTIVITIES	NUMBE R	WEIGHT							
Midterr	m Exam	0	0.00							
Quiz		0	0.00							
Home	work-project	4	40.00							
Final E	xam	1	60.00							
Total		5	100.00							
	oution of Term (Year) Learning Activities ss Grade	es to	40.00							
Contrib	oution of Final Exam to Success Grade	9	60.00							
Total			100.00							

Measurer Course	nent ar	nd Eva	luatio	n Tec	hnique	s Use	d in th	ne Ho	mewo	rk, Pro	ject, Fi	nal Exa	m			
24 E	CTS/	CTS / WORK LOAD TABLE														
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	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
			LO: L	earr	ning C	Dbjec	tive	s P	Q: P	rogra	ım Qu	alifica	tions	i		<u>. </u>
Contrib 1 very low ution Level:			2 Iow		3 Medium			4 High			5 Very High					