

# ARTIFICIAL INTELLIGENCE

1	Course Title:	ARTIFICIAL INTELLIGENCE	
2	Course Code:	IYS4216	
3	Type of Course:	Optional	
4	Level of Course:	First Cycle	
5	Year of Study:	4	
6	Semester:	8	
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:		
12	Language:	Turkish	
13	Mode of Delivery:	Face to face	
14	Course Coordinator:	Doç. Dr. MELİH ENGİN	
15	Course Lecturers:	Doç.Dr. Melih ENGİN	
16	Contact information of the Course Coordinator:	Doç.Dr. Melih ENGİN 0224 294 26 95 melihengin@uludag.edu.tr	
17	Website:		
18	Objective of the Course:	Giving basic definitions and concepts about artificial intelligence, understanding fuzzy expert systems and applications.	
19	Contribution of the Course to Professional Development:	To be able to design the systems necessary for an enterprise and to produce solutions for the needs of iders.	
20	Learning Outcomes:		
		1	Recognize scientific intelligence methods, science, information and informatics, flexible methods and types
		2	Understands artificial neural networks and their basic properties
		3	Understands the structure and basic features of expert systems
		4	Understands the genetic algorithm and its basic properties
		5	Understands the ai and its basic properties
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21	Course Content:		
		<b>Course Content:</b>	
Week	Theoretical	Practice	
1	Introduction to Artificial Neural networks		
2	Creation of artificial neural networks		
3	Structures of Artificial Neural Networks		
4	Consultancy and non-consultancy learning		

5	Artificial Neural Networks Applications	
6	Fuzzy Logic	
7	Fuzzy Logic	
8	Fuzzy Logic Controller systems	
9	Fuzzy Logic Controller systems	
10	Genetic algorithm	
11	Genetic algorithm	
12	Genetic algorithm	
13	Genetic algorithm	
14	Genetic algorithm	

22	Textbooks, References and/or Other Materials:	Çetin Elmas, Yapay Zeka Uygulamaları, Seçkin Yayıncılık
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23	Assesment	
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TERM LEARNING ACTIVITIES	NUMBER	WEIGHT
Midterm Exam	1	40.00
Quiz	0	0.00
Home work-project	0	0.00
Final Exam	1	60.00
Total	2	100.00

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	10	3.00	42.00
Practicals/Labs	0	0.00	0.00
Self study and preperation	0	0.00	0.00
Homeworks	0	0.00	0.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	1	60.00	60.00
Others	0	0.00	0.00
Final Exams	1	75.00	75.00
Total Work Load			237.00
Total work load/ 30 hr			5.90
ECTS Credit of the Course			6.00

25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ10	PQ11	PQ12	PQ13	PQ14	PQ15	PQ16
ÖK1	3	4	4	5	5	0	5	5	0	0	4	0	0	0	0	0
ÖK2	3	4	4	5	5	0	5	5	0	0	4	0	0	0	0	0
ÖK3	3	4	4	5	5	0	5	5	0	0	4	0	0	0	0	0
ÖK4	3	4	4	5	5	0	5	5	0	0	4	0	0	0	0	0

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