INTRODUCTION TO ARTIFICIAL INTELLIGENCE

1	Course Title:	INTRODUCTION TO ARTIFICIAL INTELLIGENCE
2	Course Code:	BLPS247
3	Type of Course:	Optional
4	Level of Course:	Short Cycle
5	Year of Study:	2
6	Semester:	3
7	ECTS Credits Allocated:	3.00
8	Theoretical (hour/week):	2.00
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:	Öğr. Gör. KORAY AKİ
15	Course Lecturers:	
16	Contact information of the Course Coordinator:	korayaki@uludag.edu.tr, +90(224)2942674 – Dahili: 62141, Bursa Uludağ Üniversitesi Orhangazi Y. Asil Çelik MYO Bilgisayar Programcılığı Programı-Orhangazi/Bursa
17	Website:	
18	Objective of the Course:	The aim of this course is to provide students the knowledge about the basic techniques and methodologies of artificial intelligence and abilities to apply artificial intelligence methods on practical problems.
19	Contribution of the Course to Professional Development:	
20	Learning Outcomes:	

	1	Introduces Artificial Intelligence concepts.
	2	Gains knowledge about the basic methodologies in artificial intelligence.
	3	It introduces the necessary tools to create the formulation of Artificial Intelligence problems.
	4	Study the tools and structures necessary to design intelligent agent systems.
	5	It introduces the necessary tools for solving problems depending on the nature of the problem and the search space.
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21	Course Content:	
	Course Content:	
Week	Theoretical	Practice
1	Fundamentals of Artificial Intelligence	
2	Intelligence Agents	
3	Problem Solving and Blind Search	

4	Heuristic Search	
5	Local Search	
6	Adversarial Search	
7	Game Theory	
8	Midterm	
9	Application Problems	
10	Knowledge Representation and Inference	
11	Expert Systems	
12	Machine Learning	
13	Artificial Neural Network	
14	Robot Science	

22	Textbooks, References and/or Other Materials:	Artificial Intelligence: A Modern Approach (3rd Edition), Stuart Russell, Peter Norvig, Prentice Hall, 2010
23	Assesment	

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

Contribution of Final Exam to Success Grade 60.00

Contribution of Measurement and Evaluation Techniques Used in the Education

24 ECTS / WORK LOAD TABLE

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	2.00	28.00
Practicals/Labs	0	0.00	0.00
Self study and preperation	14	2.00	28.00
Homeworks	14	2.00	28.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	1	3.00	3.00
Others	0	0.00	0.00
Final Exams	1	3.00	3.00
Total Work Load			90.00
Total work load/ 30 hr			3.00
ECTS Credit of the Course			3.00

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	2	4	2	5	3	3	3	2	2	2	2	0	0	0	0	0
ÖK2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

ÖK5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

LO: Learning Objectives PQ: Program Qualifications					
Contribution Level:	**1 very low**	**2 low**	**3 Medium**	**4 High**	**5 Very High**