

Course title	Code	semester	T+U	credit	ECTS
Artificial intelligence		5	3+0	3	5
Prerequisite Courses	None				
Language of the Course	English				
Course Level	Undergraduate				
Type of Course	Compulsory				
Course Coordinator					
Instructors					
Course Assistants					
The aim of lesson	Artificial Intelligence and its concepts, Artificial neural networks, Genetic Algorithm, Game Trees and Minimax algorithm, Reinforcement learning knowledge and application is to impart skills.				
Course Content	Artificial intelligence and its concepts, Artificial neural networks, Genetic Algorithm, Minimax algorithm, Reinforced learning				
Course Learning Outcomes	<p>Students who successfully complete this course;</p> <ol style="list-style-type: none"> 1. Gains the ability to design smart programs. 2. Have the ability to apply mathematics, science and engineering knowledge in intelligent systems. 				
Weeks	Topics				
one	Introduction to Artificial Intelligence				
2	Artificial Intelligence Approaches and Basic Concepts				
3	Artificial Neural Networks and Fundamentals				
4	Artificial Neural Network Types				
5	Backpropagation Algorithm and Example Problem Solving				
6	Artificial Neural Networks Applications I				
7	Artificial Neural Networks Applications II				
8	Introduction to Genetic Algorithms and Basic Concepts				
9	Example Problem Solving with Genetic Algorithms				
10	Genetic Algorithms Applications				
11th	Reinforced Learning				
12	Reinforced Learning Applications				
13	Game Trees and Minimax Algorithm				
14	End of Term Practice Assignments Presentations				
15	Introduction to Artificial Intelligence				
General Competencies					
<p>European Computer Science, the information and communication technologies required by the field and at least one computer software. Uses License Advanced. He has the ability to communicate effectively in English and Turkish and uses both languages in the field of informatics. monitors information, interprets and prepares technical documents. Access to information with the awareness and awareness of the necessity of lifelong learning, gains the ability to monitor developments and constantly renew themselves.</p>					
resources					
<p>Cawsey, A. (1998). The Essence of Artificial Intelligence, Prentice-Hall. Haykin, S., (2009). Neural Networks and Learning Machines, Pearson Education, 3rd Ed. Russell, SJ & Norvig, P., (2016). Artificial intelligence: a modern approach. Malaysia, Pearson Education limited.</p>					

Winston, PH, (1992). Artificial Intelligence (3rd Edition).

Evaluation System

The dates, days and hours of the Midterm Exam, Quiz, Final Exam and Evaluations will be announced later, according to the decision of the Faculty Administrative Board.

WITH PROGRAM LEARNING OUTCOMES COURSE LEARNING OUTCOMES RELATIONSHIP TABLE											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PC10	PC11
INCR EASE 1	5	5	5	5	4	4	4	5	5	4	4
INCR EASE 2	5	4	4	4	4	3	3	3	5	4	5
INCR EASE 3	5	5	5	4	5	3	3	3	3	3	3
LO4	5	5	5	3	5	4	3	3	3	3	3
LO5	5	5	5	4	5	3	3	3	3	3	3
LO: Learning Outcomes OP: Program Outcomes											
Contribution Level	1 Very Low		2 Low		3 Medium		4 High		5 Very High		

Relation of Program Outcomes and Related Course

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
Artificial intelligence	5	5	5	4	5	3	4	4	3	4	3

