

**Vocational School / Computer Programming**  
**2023 - 2024 Academic Year**  
**ARTIFICIAL INTELLIGENCE**  
**Syllabus**

<b>Course Description</b>					
<b>Name</b>	<b>Code</b>	<b>Semester</b>	<b>T+A Hour</b>	<b>Credit</b>	<b>ECTS</b>
ARTIFICIAL INTELLIGENCE	BPR2214994	Spring Semester	3+0	3	5
<b>Prerequisites Courses</b>					
<b>Recommended Elective Courses</b>					
<b>Language of Instruction</b>	Turkish				
<b>Course Level</b>	Short Cycle (Associate's Degree)				
<b>Course Type</b>	Elective				
<b>Course Coordinator</b>	Lect. Beyza KOYULMUŞ				
<b>Name of Lecturer(s)</b>	Lect. Beyza KOYULMUŞ				
<b>Assistant(s)</b>					
<b>Aim</b>	The aim of this course is to introduce and teach the fundamentals of Artificial Intelligence applications.				
<b>Course Content</b>	This course contains; Introduction to Artificial Intelligence,Philosophy and History of Artificial Intelligence,Basic Concepts,Problem Solving with Artificial Intelligence,Machine Learning,Unsupervised, Supervised and Reinforcement Learning,Big Data and Computing Technology,Intelligent Agents,Deep Learning,Neural Networks,Natural Language Processing,Computer Vision,Predictive models and sample applications,The Future of Artificial Intelligence.				
<b>Course Learning Outcomes</b>			<b>Teaching Methods</b>	<b>Assessment Methods</b>	
Knows the concepts of Artificial Intelligence.			10, 16, 9	A, E, H	
Knows the types of machine learning.			10, 16, 9	A, E	
Knows the application areas of machine learning.			10, 16, 9	A, E, F	
Knows the concepts of big data and computing technology.			16, 23, 9	A, E, F, G	
Conducts current research in the field of artificial intelligence			16, 9	A, E, G	
Understands the basics of artificial intelligence			10, 16, 9	A, E	
<b>Teaching Methods</b>	10: Discussion Method, 16: Question - Answer Technique, 23: Concept Map Technique, 9: Lecture Method				
<b>Assessment Methods</b>	A: Traditional Written Exam, E: Homework, F: Project Task, G: Quiz, H: Performance Task				
<b>Lecture Schedule</b>					
<b>Sequence</b>	<b>Topics</b>	<b>Preliminary Preparation</b>			
1	Introduction to Artificial Intelligence				
2	Philosophy and History of Artificial Intelligence				
3	Basic Concepts				
4	Problem Solving with Artificial Intelligence				
5	Machine Learning				
6	Unsupervised, Supervised and Reinforcement Learning				
7	Big Data and Computing Technology				
8	Intelligent Agents				
9	Deep Learning				
10	Neural Networks				
11	Natural Language Processing				
12	Computer Vision				
13	Predictive models and sample applications				
14	The Future of Artificial Intelligence				
<b>Evaluation Methods</b>		<b>Weight(%)</b>			
Midterm Exam		40			
General Exam		60			
<b>Resources</b>					