

Vocational School / Computer Programming

2024 - 2025 Academic Year

ARTIFICIAL INTELLIGENCE

Syllabus

Course Description					
Name	Code	Semester	T+A Hour	Credit	ECTS
ARTIFICIAL INTELLIGENCE	BPR2214994	Spring Semester	3+0	3	5
Prerequisites Courses					
Recommended Elective Courses					
Language of Instruction	Turkish				
Course Level	Short Cycle (Associate's Degree)				
Course Type	Elective				
Course Coordinator	Lect. Beyza KOYULMUŞ				
Name of Lecturer(s)	Lect. Beyza KOYULMUŞ				
Assistant(s)					
Aim	The aim of this course is to introduce and teach the fundamentals of Artificial Intelligence applications.				
Course Content	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.				
Course Learning Outcomes			Teaching Methods	Assessment Methods	
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	
Teaching Methods	10: Discussion Method, 16: Question - Answer Technique, 23: Concept Map Technique, 9: Lecture Method				
Assessment Methods	A: Traditional Written Exam, E: Homework, F: Project Task, G: Quiz, H: Performance Task				
Lecture Schedule					
Sequence	Topics	Preliminary Preparation			
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				
Evaluation Methods		Weight(%)			
Midterm Exam		40			
General Exam		60			
Resources					