Course Content

Course Name	Artificial Intelligence and Ethics		
Semester	**Course Code**	**Theory Practice Hours**	**ECTS**
4	YPZ303	3 / 0	4

Course Level	Bachelor's Degree
Course Delivery Format	Face to face
Coordinator	Assoc. Prof. Dr. Hakan Yılmaz
Coordinator E-mail	hyilmaz@ktun.edu.tr
Instructor	Assoc. Prof. Dr. Hakan Yılmaz
Course Type	Must
	Ders notları ve güncel alan kaynakları
Course Objective	The aim of this course is to enable students to evaluate the artificial intelligence systems they develop or use not only in terms of technical performance, but also with respect to their ethical, legal, societal, and professional implications; to identify risks that may arise throughout the AI lifecycle; and to make reasoned decisions in accordance with responsible AI principles.

Eng Temel Meslek Dersi	Eng Uzmanlaşma Dersi
60	40

Instructional Methods
Lecture, Discussion, Question and Answer, Case Study, Problem Solving, Brain Storming

Week	Course Content
1	Introduction to AI Ethics and Ethical Decision-Making
2	Scientific and Professional Ethics and the Responsible AI Lifecycle
3	Data Ethics, Privacy, Consent, and Data Governance
4	Algorithmic Bias, Fairness, and Inclusiveness
5	Transparency, Explainability, Accountability, and AI Evaluation
6	Artificial Intelligence, Human Rights, Surveillance, and Democratic Society
7	AI Governance, Regulations, and Standards
8	Midterm Exam
9	AI and Society: Work, Education, Healthcare, and Human–AI Relationships
10	Generative AI, Creativity, Copyright, and Synthetic Media
11	AI Safety and Cybersecurity
12	Agentic AI, Autonomy, and High-Risk Decision-Making
13	The Future of AI: Alignment, AGI, Power, and Sustainability
14	Case Workshop
15	Final Exam

No	Course Outcomes (CO)	Percent
1	Identify ethical, legal, societal, and professional issues arising in artificial intelligence systems, as well as the relevant stakeholders.	15
2	Analyze artificial intelligence systems in terms of privacy, bias, fairness, transparency, explainability, and accountability.	25
3	Evaluate the potential impacts of artificial intelligence applications on individuals, society, human rights, and the environment, and make reasoned judgments regarding associated ethical risks.	20

4	Apply artificial intelligence governance, regulatory, and responsible AI approaches in the evaluation of real-world applications.	15
5	Analyze real-world artificial intelligence cases by jointly considering ethical, technical, societal, and legal dimensions, and propose solutions within the framework of professional responsibility.	25

	CO 1	CO 2	CO 3	CO 4	CO 5
PO 1	0	2	0	0	0
PO 2	3	5	3	2	7
PO 3	0	0	0	3	4
PO 4	0	0	0	0	0
PO 5	0	0	0	0	0
PO 6	0	0	0	0	0
PO 7	0	0	0	0	0
PO 8	0	0	0	3	0
PO 9	6	6	5	7	7
PO 10	0	0	3	0	0
PO 11	6	7	9	5	7

ECTS Workload	Number	Duration,Min	Total Workload
Weekly Lecture Hour (Theoretical)	14	135	1890
Weekly Practice/Lab Hour	0	0	0
Homework	0	0	0
Quiz	0	0	0

Material Design, Preparation	0	0	0
Field Studies	0	0	0
Report Preparation	0	0	0
Presentation	0	0	0
Project Making	0	0	0
Other Studies	0	0	0
Mid-Term exam and pre-study	1	1500	1500
Final Exam and pre-study	1	3500	3500

ECTS Workload	% of Mid-term Grading	% of Final Grading
Weekly Lecture Hour (Theoretical)	0	0
Weekly Practice/Lab Hour	0	0
Homework	0	0
Quiz	0	0
Material Design, Preparation	0	0
Field Studies	0	0
Report Preparation	0	0
Presentation	0	0
Project Making	0	0
Other Studies	0	0
Mid-Term exam and pre-study	100	0

Final Exam and pre-study	0	100

