Course Syllabus

Code - Course Title	**ETE519 - Artificial Intelligence Technologies**
Course Type	I. SEMESTER
Laboratory + Practice	3+0
ECTS	**6.0**
Language of Instruction	Türkçe
Course Type	Elective Courses
Course Instructor(s)	PROF. DR. MEHMET FIRAT

Mode of Delivery	Distance education
Prerequisites	To have basic programming skills. Ability to work with Python libraries.
Recommended Resources	https://huggingface.co/anadoluuni

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 1		Basic concepts of artificial intelligence	
Week - 2		Artificial intelligence in educational technologies	
Week - 3		Machine learning applications	
Week - 4		Supervised and unsupervised learning	
Week - 5		Reinforcement learning	
Week - 6		Machine learning examples	
Week - 7		Deep learning	
Week - 8		Artificial neural networks	
Week - 9		Large language models	
Week - 10		Common large language models	
Week - 11		Training large language models	
Week - 12		Using HuggingFace	
Week - 13		Artificial intelligence agents	
Week - 14		The role of artificial intelligence in the future of education	

Learning Outcomes

#	Learning Outcome
1	To distinguish the basic concepts of artificial intelligence
2	Explain the logic of machine learning
3	Explain the working principles of deep learning.
4	To compare supervised and unsupervised learning processes.
5	Explain the mechanisms of reinforcement learning.
6	Explain the logic of large language models.
7	To train an artificial intelligence model with HuggingFace.

Sustainable Development Goals

No content has been provided.

Course Theme

No content has been provided.

AKTS Workload

Activity	Duration (Hour)	Count	Workload
Teorik Derse Katılım	0	0	0
Sınıf Dışı Çalışma (Ön Hazırlık & Pekiştirme Amaçlı)	0	0	0
Ödevler	0	0	0
Proje - Rapor - Sunum Hazırlama	0	0	0
Ara Sınav Hazırlığı (sınav süresi dahil)	0	0	0
Final Sınavı Hazırlığı (sınav süresi dahil)	0	0	0
Uygulama (Laboratuvar, Müzik/Enstrüman Uygulaması, Atölye/Saha Çalışması vb.)	0	0	0
Staj Uygulaması	0	0	0
		Calculated ECTS	**0**

Assessment Method and Passing Requirements

No content has been provided.

Assessment Method and Passing Requirements	Quamtity	Percentage (%)
1.Midterm Exam	1	40
Final Exam	1	60
	Sum (%)	**100**