Course Syllabus

Code - Course Title	**UZE638 - Big Data and Analitics in Education**
Course Type	II. SEMESTER
Laboratory + Practice	3+0
ECTS	**7.5**
Language of Instruction	Türkçe
Course Type	Elective Courses
Course Instructor(s)	PROF. DR. SİNAN AYDIN

Mode of Delivery	Face to face
Prerequisites	None
Courses Recomended	None
Recommended Resources	Course presentations and documentation of the software to be used in the course
Work Placement	None

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 1		What is big data?; Big data features and sources	
Week - 2		Big Data applications in education	
Week - 3		Big Data applications in education	
Week - 4		Accessing and recording data	
Week - 5		Extraction, cleaning and clarification	
Week - 6		Integration, aggregation and representation	
Week - 7		Modeling and analysis and Interpretation with Big Data	
Week - 8		LMS and CMS data	
Week - 9		Lerners interaction data	
Week - 10		Machine learning models	
Week - 11		Clustering	
Week - 12		Classification	
Week - 13		Association analysis	
Week - 14		Analyzes on sample datasets	

Learning Outcomes

#	Learning Outcome
1	Explain big data and its features
2	Defines data processing techniques and tools
3	Lists big data analysis techniques

Sustainable Development Goals

✓ Quality Education

Course Theme

✓ Educational Sciences and Educational Technologies ✓ Data Science

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.