Course Syllabus

Code - Course Title	**BVA108 - Big Data Technologies**
Course Type	II. SEMESTER
Laboratory + Practice	2+3
ECTS	**5.0**
Language of Instruction	Türkçe
Course Type	Required Courses
Course Instructor(s)	ÖĞR. GÖR. GÜVENÇ USANMAZ

Mode of Delivery	Face to face
Prerequisites	Basic Mathematical Knowledge
Courses Recomended	Basic Mathematical Knowledge
Recommended Resources	Faculty Recommendation
Work Placement	N/A

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 1		Advanced Distributed Systems	
Week - 2		Advanced Data Modeling	
Week - 3		Advanced Data Processing Frameworks	
Week - 4		Scalable Data Storage Solutions	
Week - 5		Real-Time Data Streaming	
Week - 6		Advanced Data Analysis Techniques	
Week - 7		Big Data Infrastructure Management	
Week - 8		Advanced Data Visualization and Exploration	
Week - 9		Big Data Security and Privacy	
Week - 10		Cloud-Based Big Data Solutions	
Week - 11		Advanced Data Integration and ETL Processes	
Week - 12		Big Data Governance and Compliance	
Week - 13		Optimization and Performance Tuning	
Week - 14		Advanced Analytics Applications	

Learning Outcomes

#	Learning Outcome
1	Competence in Data Storage and Retrieval
2	Proficiency in Data Processing Technologies
3	Ability in Data Analysis and Visualization
4	Skills in Data Integration and ETL
5	Awareness of Data Security and Privacy

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.