Course Syllabus

Code - Course Title	**BVA103 - Data Science**
Course Type	I. SEMESTER
Laboratory + Practice	3+2
ECTS	**5.0**
Language of Instruction	Türkçe
Course Type	Required Courses
Course Instructor(s)	ÖĞR. GÖR. DR. BÜLENT BATMAZ

Mode of Delivery	Face to Face
Prerequisites	There are no prerequisites.
Courses Recomended	It is not available.
Recommended Resources	It will be announced later.
Work Placement	It is not available.

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 1		Introduction to data analysis	
Week - 2		Data science and fundamental concepts	
Week - 3		Data types and data sources	
Week - 4		Data science process and stages	
Week - 5		Data collection and preprocessing	
Week - 6		Data cleansing and formatting	
Week - 7		Data sets	
Week - 8		Statistical data analysis	
Week - 9		Statistical data analysis	
Week - 10		Data visualization tools and techniques	
Week - 11		Graph types and their uses	
Week - 12		Fundamentals of machine learning	
Week - 13		Deep learning and artificial neural networks, Big data and parallel processing	
Week - 14		Data science projects	

Learning Outcomes

#	Learning Outcome
1	Understanding data science
2	Understanding the sources and types of data
3	Mastery of data science tools and technologies
4	Learning data collection and preprocessing techniques
5	Have general knowledge about data analysis techniques

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**