Course Syllabus

Code - Course Title	**VBA105 - Data Science and Statistics**
Course Type	I. SEMESTER
Laboratory + Practice	3+0
ECTS	**6.0**
Language of Instruction	İngilizce
Course Type	Required Courses
Course Instructor(s)	PROF. DR. FİKRET ER

Mode of Delivery	Face to face

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 1		Role of statistics in data science	
Week - 2		Fundamental statistical concepts	
Week - 3		Data types and structures	
Week - 4		Data collection methods	
Week - 5		Measures of central tendency	
Week - 6		Measures of dispersion	
Week - 7		Population and sample relationships	
Week - 8		Basic data visualization principles	
Week - 9		Identifying anomalies in data	
Week - 10		Exploratory visual analysis techniques	
Week - 11		Advanced visual representations	
Week - 12		Analytical Thinking fundamentals	
Week - 13		Formulating data-driven questions	
Week - 14		Interpreting statistical findings	

Learning Outcomes

#	Learning Outcome
1	Define the role of statistics in data science
2	Calculate measures of central tendency and dispersion

Learning Outcomes

#	Learning Outcome
3	Construct exploratory visual analyses
4	Formulate rigorous data-driven questions

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	30
Final Exam	1	60
Quiz	1	10
	Sum (%)	**100**