Course Syllabus

Code - Course Title	**VBA109 - Probability for Data Science**
Course Type	I. SEMESTER
Laboratory + Practice	2+0
ECTS	**4.0**
Language of Instruction	İngilizce
Course Type	Required Courses
Course Instructor(s)	PROF. DR. FİKRET ER

Mode of Delivery	Face to face
Prerequisites	None
Courses Recomended	None
Work Placement	None

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 1		History of Probability and Its Importance in Data Science	
Week - 2		Probability Rules	
Week - 3		Conditional Probability and the General Multiplication Rule	
Week - 4		Simulating Probability Experiments	
Week - 5		Bayes Theorem	
Week - 6		Discrete Random Variables, Binomial Distribution	
Week - 7		review of the first 6 weeks	
Week - 8		The Poisson Probability Distribution	
Week - 9		The Hypergeometric Probability Distribution	
Week - 10		Continuous Random Variables, Uniform distribution	
Week - 11		Normal distribution	
Week - 12		Normal Distribution applications	
Week - 13		Exponential Distribütion	
Week - 14		Review of the course with exercises	

Learning Outcomes

#	Learning Outcome
1	Knows the history of probability
2	Implements Probability Rules
3	Knows the Discrete Distribütions
4	Knows Continuous Distributions

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**