Course Syllabus

Code - Course Title	**SAY530 - Multivariate Statistics**
Course Type	II. SEMESTER
Laboratory + Practice	3+0
ECTS	**6.0**
Language of Instruction	Türkçe
Course Type	Elective Courses
Course Instructor(s)	DOÇ. DR. DUYGU TUNALI

Mode of Delivery	This course requires face-to-face classes.
Prerequisites	There is no prerequisite or co-requisite for this course.
Courses Recomended	Statistics and Regression Analysis are the recommended components for this course.
Recommended Resources	-
Work Placement	Not suitable for this course

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 1		Introduction: Organization of data set, Descriptive statistics, Graphical techniques	
Week - 2		Multivariate Normal Distribution: Properties, Maximum likelihood estimation	
Week - 3		Principal Component Analysis: Dimension reduction	
Week - 4		Principal Component Analysis:Steps to be followed	
Week - 5		Introduction to Factor Analysis and comparison with Principal Component Analysis	
Week - 6		Factor analysis; Factor Rotation and Factor Scores	
Week - 7		Factor analysis; Application	
Week - 8		Logistic Regression and Classification	
Week - 9		Logit model, Binary logistic regression	
Week - 10		Sample review	
Week - 11		Multiple logistic regression	
Week - 12		Sample review	
Week - 13		Overall evaluation	
Week - 14		Overall evaluation	

Learning Outcomes

#	Learning Outcome
1	Define multivariate data set
2	Define the multivariate data set.
3	Define logistic regression

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.