Course Syllabus

Code - Course Title	**SAY517 - Regression Analysis Techniques**
Course Type	I. SEMESTER
Laboratory + Practice	3+0
ECTS	**6.0**
Language of Instruction	Türkçe
Course Type	Elective Courses
Course Instructor(s)	PROF. DR. HARUN SÖNMEZ

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 1		Description of regression and regression analysis	
Week - 2		Two variable regression equation	
Week - 3		The estimation of the model using least squares method	
Week - 4		The standard error and the variance of the estimates	
Week - 5		Correlation coefficient	
Week - 6		The assumptions of the least squares estimation method	
Week - 7		The Gauss-Markov Theorem	
Week - 8		Confidence intervals, hypothesis tests, variance analysis	
Week - 9		Regression models without a constant, multiple linear regression analysis	
Week - 10		The comparison of two variable regression equation and multiple regression equation	
Week - 11		Model estimation in multiple regression analysis and applications	
Week - 12		Determination coefficient and the model selection	
Week - 13		Obtaining the model using matrixes	
Week - 14		Obtaining the model using matrixes	

Learning Outcomes

#	Learning Outcome
1	define regression analysis.
2	evaluate the regression model.
3	apply multiple regression analysis.

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**