Course Syllabus

Code - Course Title	**ÖVA514 - Advanced Quantitative Analysis and Reporting**
Course Type	II. SEMESTER
Laboratory + Practice	3+0
ECTS	**6.0**
Language of Instruction	Türkçe
Course Type	Elective Courses
Course Instructor(s)	PROF. DR. EVRİM GENÇ KUMTEPE

Mode of Delivery	face-to-face
Prerequisites	N/A
Courses Recomended	Quantitative Data Analysis
Recommended Resources	Will be provided as part of the course.
Work Placement	N/A

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 1		Introduction to Advanced Quantitative Data Analysis	
Week - 2		Nonparametric Analyses-I: Categorical Data	
Week - 3		Nonparametric Analyses II: Bivariate Tests	
Week - 4		Nonparametric Analyses III: Multivariate Tests	
Week - 5		Nonparametric Analyses IV: Logistic Regression	
Week - 6		ANCOVA – Analysis of Covariance	
Week - 7		Causal Models I: Moderation Models	
Week - 8		Causal Models II: Mediation Models	
Week - 9		Factor Analysis-I: Orthogonal Rotation Methods in Exploratory Factor Analysis	
Week - 10		Factor Analysis-II: Oblique Rotation Methods in Exploratory Factor Analysis	
Week - 11		Factor Analysis-III: Introduction to Confirmatory Factor Analysis	
Week - 12		Factor Analysis-IV: Model Fit Indices in Confirmatory Factor Analysis	
Week - 13		Factor Analysis-V: Construct Validity in Confirmatory Factor Analysis	
Week - 14		Factor Analysis-VI: Building Well-Fitting and Statistically Sound Models in Confirmatory Factor Analysis	

Learning Outcomes

#	Learning Outcome
1	Able to perform nonparametric analyses using statistical software and interpret the results.
2	Able to conduct various types of analysis of variance and interpret the findings appropriately.
3	Able to perform statistical analyses for causal models, including mediation and moderation effects.
4	Able to conduct multivariate statistical analyses using appropriate software tools and interpret the outcomes accurately.
5	Able to report statistical analyses in accordance with scientific standards, including the presentation of assumptions, test results, and interpretations.

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.