Course Syllabus

Code - Course Title	**ARY616 - Advanced Quantitative Research Methods**
Course Type	II. SEMESTER
Laboratory + Practice	4+0
ECTS	**7.5**
Language of Instruction	Türkçe
Course Type	Required Courses
Course Instructor(s)	DOÇ. DR. MUHAMMET BAHADIR AYAS

Mode of Delivery	This course is offered through lecture and in-class discussions.
Prerequisites	Basic courses on research and statistics should be completed beforehand.
Recommended Resources	Field, A. (2009). Discovering statistics using SPSS (3rd edition). London: Sage.Huck, S.W. (2012). Reading statistics and research (6th edition). Boston: Pearson.Pallant, J. (2007). SPSS survival manual (3rd edition). Maidenhead: McGraw Hill Education.
Work Placement	N/A

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 1		Introduction	
Week - 2		Basic Concepts: Effect vs. Prediction, Dependent-Independent-Moderator-Mediator Variables, Within and Between Group Variables	
Week - 3		Data Characteristics and Variable Types: Data Types, Examining Data, Normal Distribution, Skewness-Kurtosis, Outliers and Missing Values, Data Transformation	
Week - 4		Measurement in Quantitative Research: Measurement Tools, Measurement Validity and Reliability	
Week - 5		Statistical Tests and Significance: Description of Statistical Significance	
Week - 6		Bivariate Statistical Techniques, Test Assumptions, Parametric and Non-Parametric Tests	
Week - 7		Multivariate Statistical Tests: Advanced Analyses of Variance	
Week - 8		Multivariate Statistical Tests: Simple and Multiple Regression	
Week - 9		Exploratory Factor Analysis	
Week - 10		Structural Equation Modeling	
Week - 11		Confirmatory Factor Analysis	
Week - 12		Path Analysis, Evaluation of Model Fit	

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Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 13		Path Analysis, Evaluation of Model Fit	
Week - 14		Evaluation and review	

Learning Outcomes

#	Learning Outcome
1	1. will be able to recall the basics of research methods
2	2. will be able to type in data and conduct preliminary analyses.
3	differentiate between parametric and non-parametric tests.
4	select and conduct relevant parametric and nonparametric tests to compare groups.
5	measure relationships among variables.
6	conduct multivariate relationship and comparison analyses.

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.