Course Syllabus

Code - Course Title	**İST501 - Statistical Methods in Education**
Course Type	II. SEMESTER
Laboratory + Practice	3+0
ECTS	**6.0**
Language of Instruction	Türkçe
Course Type	Elective Courses
Course Instructor(s)	DR. ÖĞR. ÜYESİ TUĞBA BABACAN

Mode of Delivery	The mode of delivery of this course is Face to face
Prerequisites	There is no prerequisite or co-requisite for this course.
Courses Recomended	It is suggested for students to take ARY111 Research Methods in Social Sciences.
Recommended Resources	Tanner, D. (2012). Using statistics to make educational decisions. SAGE Publications, Inc., https://doi.org/10.4135/9781452240596
Work Placement	N/A

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Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 1		Introduction: The definition and function of statistics, variables; scales of measurement,population and sample	
Week - 2		Organizing and Graphing Data	
Week - 3		Describing distributions: Individual Scores, Central Tendency, and Variation	
Week - 4		The Normal Distribution	
Week - 5		Probabilitiy, Sampling Distirbutions, and Sampling Procedures	
Week - 6		Hypothesis Testing: One-Sample Case for the Mean	
Week - 7		Estimation: One-Sample Case for the Mean	
Week - 8		Hypothesis Testing: One-Sample Case for other statistics	
Week - 9		Hypothesis Testing: Two-Sample Case for the Mean	
Week - 10		Hypothesis Testing: Two-Sample Case for other Statistics	
Week - 11		Hypothesis Testing,K-saple case analysis of variance, one-way classification	
Week - 12		Analysis of variance, Two- vay classification, Analysis of Covariance	
Week - 13		Chi Square test for frequencies	

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Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 14		Multiple Linear regression	

Learning Outcomes

#	Learning Outcome
1	explain basic concepts of statistics.
2	form series from grouped data.
3	generate knowledge by using measures of central tendency and variability .
4	calculate probability.
5	do sampling planning and implementation.
6	define relations between quantitates and qualitative variables.
7	calculate indexes.
8	analyze time series.

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.