



## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Statistics in Social Sciences							
Course Code		SBE506		Course Level		Second Cycle (Master's Degree)			
ECTS Credit	5	Workload	128 ( <i>Hours</i> )	Theory	3	Practice	0	Laboratory	0
Objectives of the Course		It is aimed to comprehend, apply and report statistical methods and applications in Social Sciences.							
Course Content		Sampling, Hypothesis testing, correlation, regression, logistic regression, reliability types, validity types							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Demonstration, Problem Solving					
Name of Lecturer(s)		Assoc. Prof. Gökhan AKSU							

### Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	60

### Recommended or Required Reading

1	Aktürk, Z., Acemoğlu, H. (2011). Sağlık Çalışanları İçin araştırma ve Pratik İstatistik. 139-177.
2	Şener Büyüköztürk (2001). Deneyisel Desenler. PegemA Yayıncılık. Ankara. 1-77.
3	Eğitimde Ölçme ve Değerlendirme - Doç. Dr. Halil TEKİN
4	Test Hazırlama Kılavuzu - Durmuş Ali Özçelik
5	Sosyal Bilimler için Veri Analizi El Kitabı, Şener Büyüköztürk
6	Assessing Science Understanding, J. J. Mintzes, J. H. Wandersee, J. D. Novak

Week	Weekly Detailed Course Contents	
1	Theoretical	Introduction to the course: objectives, topics, tools, evaluation
2	Theoretical	Hypothesis tests: Parent mass, parameter, sample, sample account, Hypothesis, zero and alternative hypothesis,
3	Theoretical	Hypothesis testing: hypothesis testing, error concept, test statistic, significance level, hypothesis testing steps, assumptions
4	Theoretical	Data analysis: T-test types
5	Theoretical	SPSS application: T-test types
6	Theoretical	Data analysis: Non parametric tests
7	Theoretical	Data analysis: Non parametric tests
8	Theoretical	Data analysis: Correlation and regression
9	Theoretical	Midterm exam
10	Theoretical	SPSS application: Correlation and regression
11	Theoretical	Data analysis and SPSS application: Logistic regression
12	Theoretical	Types of reliability
13	Theoretical	Types of validity
14	Theoretical	Types of validity
15	Theoretical	FINAL

### Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	3	1	56
Lecture - Practice	10	2	2	40
Assignment	1	9	3	12
Midterm Examination	1	1	9	10



Final Examination	1	1	9	10
Total Workload (Hours)				128
[Total Workload (Hours) / 25*] = ECTS				5
*25 hour workload is accepted as 1 ECTS				

### Learning Outcomes

1	He can select and do the statistical analysis method.
2	Know which one to use data collection tools.
3	Uses SPSS package program
4	Interpret the importance of analysis.
6	Evaluate and report analyzes.

### Programme Outcomes (Social Studies Education Master)

1	To be able to gain subject knowledge of profession in theory and practice in the learning process.
2	To be able to make plans related to the subject-matter and gain the competence of using the appropriate approach, strategy, technique for the plans in the learning process
3	To be able to gain teaching skills of the profession throughout the learning process.
4	To be able to implement teaching profession knowledge, skills, attitudes and habits related to the subject-matter in a real teaching and learning environment in the learning process
5	To be able to comprehend contemporary approaches of education and the philosophies they are based on.
6	To be able to gain the basic skills such as comprehending, expressing, commenting, evaluating, being aware and enterprising, communicating, acknowledging the individual related to the subject-matter.
7	To be able to be individuals faithful to the Principles and Revolutions of Atatürk, modern democratic, secular, protecting and developing one's country, being alive to the nation, respecting human rights, preserving the nature, not being discriminatory, giving importance to the traditions and customs, protecting the values
8	To be able to improve oneself in terms of sport, art and culture.
9	To be able to be individuals believing in lifelong learning
10	To be able to educate individuals who keep up with developments in social, economic, technological and scientific areas, who investigate the main reasons of World problems and try to contribute to the solution of these problems.

### Contribution of Learning Outcomes to Programme Outcomes 1:Very Low, 2:Low, 3:Medium, 4:High, 5:Very High

	L1	L2	L3	L4	L6
P1	4	3	4	3	3
P2	4	4	4	3	3
P3	3	3	4	4	4
P4	3	3	4	4	4
P5	4	3	3	4	4
P6	3	4	3	3	3
P7	3	4	3	4	3
P8	4	4	3	3	3
P9	4	3	3	3	4
P10	4	3	3	4	4

