

## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title	Statistics							
Course Code	OÖÖ321		Couse Level		First Cycle (Bachelor's Degree)			
ECTS Credit 3	Workload	75 (Hours)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course	Objectives of the Course This course aims to teach basic statistics and probability concepts.							
Course Content	distribution), errelations and is, test of chi-s	estimation of alternative co quare, the p	universe orrelations of	parameters (st s methods, test	andart error ting of hypotl nent, standa	(measures of cer and reliability inte hesis, decision ma Irdization and ada	rvals), aking,	
Work Placement N/A								
Planned Learning Activities and Teaching Methods			Explanation	(Presenta	ation), Discuss	ion, Problem	Solving	
Name of Lecturer(s)  Assoc. Prof. Mehmet Taha ESER								

Assessment Methods and Criteria						
Method	Quantity Percentage (					
Midterm Examination	1	40				
Final Examination	1	70				

Recommended or Required Reading							
1	Baykul, Y. (1999). İstatistik Metodlar ve Uygulamalar. Ankara: Anı Yayıncılık.						
2							
3							
4	Büyüköztürk, Ş. (2011). Sosyal Bilimler için Veri Analizi El Kitabı. Ankara: Pegem Akademi.						
5	Köklü, N. & Büyüköztürk, Ş. (2000). Sosyal Bilimler için İstatistiğe Giriş. Ankara: Pegem Akademi.						
6	Spiegel, M.R. & Stephens, L.J. (Çev.Ed. Esin, A. & Çelebioğlu, S.). (1999). İstatistik. Ankara: Nobel Yayıncılık.						

leek	Weekly Detailed Cour	se Contents		
1	Theoretical	Introduction to statistics and basic concepts of statistics		
	Preparation Work	Baykul, Y. (1999). İstatistik Metodlar ve Uygulamalar. Ankara: Anı Yayıncılık. (pp:31-75)		
2	Theoretical	Descriptive statistics (measures of central tendency and distribution)		
	Preparation Work	Baykul, Y. (1999). İstatistik Metodlar ve Uygulamalar. Ankara: Anı Yayıncılık. (pp:75-136)		
3	Theoretical	Estimation of universe parameters (standart error and reliability intervals)		
	Preparation Work	Baykul, Y. (1999). İstatistik Metodlar ve Uygulamalar. Ankara: Anı Yayıncılık. (pp:256-269)		
4	Theoretical	Estimation of universe parameters (standart error and reliability intervals)		
	Preparation Work	Baykul, Y. (1999). İstatistik Metodlar ve Uygulamalar. Ankara: Anı Yayıncılık. (pp:269-290)		
5	Theoretical	Concept of correlations and alternative correlations methods		
	Preparation Work	Baykul, Y. (1999). İstatistik Metodlar ve Uygulamalar. Ankara: Anı Yayıncılık. (pp:140-182)		
6	Theoretical	Testing of hypothesis, decision making, difference tests		
	Preparation Work	Baykul, Y. (1999). İstatistik Metodlar ve Uygulamalar. Ankara: Anı Yayıncılık. (pp:316-345)		
7	Theoretical	Testing of hypothesis, decision making, difference tests		
	Preparation Work	Baykul, Y. (1999). İstatistik Metodlar ve Uygulamalar. Ankara: Anı Yayıncılık. (pp:345-373)		
8	Theoretical	Test of chi-square		
	Preparation Work	Baykul, Y. (1999). İstatistik Metodlar ve Uygulamalar. Ankara: Anı Yayıncılık. (pp:373-394)		
9	Intermediate Exam	Midterm Exam		
10	Theoretical	The process of scale development, standardization and adaptation		
	Preparation Work	Baykul, Y. (2010). Eğitimde ve Psikolojide Ölçme: Klasik Test Teorisi ve Uygulaması. Ankara: Pegem Akademi. (pp:313-336)		
11	Theoretical	The process of scale development, standardization and adaptation		
	Preparation Work	Baykul, Y. (2010). Eğitimde ve Psikolojide Ölçme: Klasik Test Teorisi ve Uygulaması. Ankara: Pegem Akademi. (pp:336-362)		



12	Theoretical	The process of scale development, standardization and adaptation				
	Preparation Work	Baykul, Y. (2010). Eğitimde ve Psikolojide Ölçme: Klasik Test Teorisi ve Uygulaması. Ankara: Pegem Akademi. (pp:362-392)				
13	Theoretical	Data analizing with package programs and alternative programs				
	Preparation Work	Büyüköztürk, Ş. (2011). Sosyal Bilimler için Veri Analizi El Kitabı. Ankara: Pegem Akademi. (pp:31-79)				
14	Theoretical	Data analizing with package programs and alternative programs				
	Preparation Work	Büyüköztürk, Ş. (2011). Sosyal Bilimler için Veri Analizi El Kitabı. Ankara: Pegem Akademi. (pp:79 -123)				
15	Theoretical	Data analizing with package programs and alternative programs				
	Preparation Work	Büyüköztürk, Ş. (2011). Sosyal Bilimler için Veri Analizi El Kitabı. Ankara: Pegem Akademi. (pp:123-182)				
16	Final Exam	Final Exam				

Workload Calculation						
Activity	Quantity	Preparation	Duration	Total Workload		
Lecture - Theory	14	0	2	28		
Reading	14	0	2	28		
Midterm Examination	1	8	1	9		
Final Examination	1	8	2	10		
	75					
[Total Workload (Hours) / 25*] = <b>ECTS</b>						
*25 hour workload is accepted as 1 ECTS						

## **Learning Outcomes**

- The learner is expected to be able to making basic statistical calculations on a data set with using descriptive statistics that measures of central tendency and distribution.
- 2 The learner is expected to be able to determinate the relation between two data sets with using different correlation methods.
- 3 The learner is expected to be able to estimate the universe parameters with using statistics that collected from sample.
- 4 The learner is expected to be able to make desicions about a data set with using different tests of hypothesis.
- 5 The learner is expected to be able to use various software packages in analysing data.

## Programme Outcomes (Early Childhood Teacher Education)

- 1 To be able to gain subject knowledge of profession in theory and practice in the learning process.
- To be able to gain the competence of using the appropriate approach, strategy, technique for the plans in the learning process, by making instructional plans related to the subject-matter.
- To be able to gain skills of the teaching profession in the learning process.
- 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.
- 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
  - To be able to become individuals faithful to the Principles and Revolutions of Ataturk, be modern, democratic,, secular, protecting and deveoping 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 become individuals believing in lifelong learning.
- 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	L5
P1	2	2	2	2	2
P2	3	3	3	3	3
P3	2	2	2	2	2
P4	2	2	2	2	2
P5	2	2	2	2	2
P6	2	2	2	2	2



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P7	2	2	2	2	2
P8	2	2	2	2	2
P9	2	2	2	2	2
P10	2	2	2	2	2

