

TOROS ÜNİVERSİTESİ

Faculty Of Economic, Administrative And Social Sciences
Psychology (English)

Course Information

STATISTICS IN BEHAVIORAL SCIENCES I					
Code	Semester	Theoretical	Practice	National Credit	ECTS Credit
		Hour / Week			
PSY107	Fall	3	0	3	6

Prerequisites and co-requisites	None
Language of instruction	Turkish
Type	Required
Level of Course	Bachelor's
Lecturer	Assist.Prof.Dr. Ayhan DEMİRCİ
Mode of Delivery	Face to Face
Suggested Subject	None
Professional practise (internship)	None
Objectives of the Course	To provide an introduction to some concepts of probability and statistics with applications of health enterprises problems. The course illustrates many examples of common statistical methods for students who would like to focus on descriptive relationships and information intensive fields.
Contents of the Course	Permutations, Combinatins, Probability, Discrete and Continuous random variables with their probability distributions and expectations, Sampling distributions.

Learning Outcomes of Course

#	Learning Outcomes
1	will be able to define data and summarize the relationship between datas
2	will be able to create and use graphs for categorical and numerical data, and to describe relationships between variables
3	will be able to use measures of central tendency, variation, and shape, and use population summary measures
4	will be able to assess outcomes and events in a probability experiment, apply basic rules of probability
5	will be able to apply the concept of statistical independence and use Bayes' Theorem
6	will be able to use mean and standard deviation for discrete and continuous random variables
7	will be able to use and apply some special probability distributions, and the normal approximation to the binomial distribution
8	will be able to determine the skewness and curtosis of datas

Course Syllabus

#	Subjects	Teaching Methods and Technics
1	Basic Statistics Concepts	Online
2	Data analysis	Online
3	Data Summarization Methods (Frequency, Table, Graphic)	Online
4	Data Summarization Methods (Central Tendency Measures)	Online
5	Data Summarization Methods (Central Distribution Measures)	Online
6	Moments	Online
7	Stiffness and Skewness	Online
8	Mid-Term Exam.	Online exam

9	Probability Theory	Online
10	Probability Theory	Online
11	Discrete Probability Distributions (Binomial Probability Distribution)	Online
12	Discrete Probability Distributions (Poisson Probability Distribution)	Online
13	Discrete Probability Distributions (Hypergeometric Probability Distribution)	Online
14	Continuous Probability Distributions (Normal Probability Distribution)	Online
15	Continuous Probability Distributions (Normal Probability Distribution)	Online
16	Final Exam	Written exam

Course Syllabus

#	Material / Resources	Information About Resources	Reference / Recommended Resources
1	Uygulamalı İstatistik I (Alaaddin Başar, Erkan Oktay)		
2	Uygulamalı İstatistik (Özer Serper)		

Method of Assessment

#	Weight	Work Type	Work Title
1	20%	Mid-Term Exam	Mid-Term Exam
2	80%	Final Exam	Final Exam

Relationship between Learning Outcomes of Course and Program Outcomes

#	Learning Outcomes	Program Outcomes	Method of Assessment
1	will be able to define data and summarize the relationship between datas	4	1,2
2	will be able to create and use graphs for categorical and numerical data, and to describe relationships between variables	4	1,2
3	will be able to use measures of central tendency, variation, and shape, and use population summary measures	4	1,2
4	will be able to assess outcomes and events in a probability experiment, apply basic rules of probability	4	1,2
5	will be able to apply the concept of statistical independence and use Bayes' Theorem	4	1,2
6	will be able to use mean and standard deviation for discrete and continuous random variables	4	1,2
7	will be able to use and apply some special probability distributions, and the normal approximation to the binomial distribution	4	1,2
8	will be able to determine the skewness and curtosis of datas	4	1,2

PS. The numbers, which are shown in the column Method of Assessment, presents the methods shown in the previous table, titled as Method of Assessment.

Work Load Details

#	Type of Work	Quantity	Time (Hour)	Work Load
1	Course Duration	14	3	42
2	Course Duration Except Class (Preliminary Study, Enhancement)	14	3	42
3	Presentation and Seminar Preparation	0	0	0
4	Web Research, Library and Archival Work	0	0	0
5	Document/Information Listing	0	0	0
6	Workshop	0	0	0
7	Preparation for Midterm Exam	1	16	16

8	Midterm Exam	1	2	2
9	Quiz	0	0	0
10	Homework	2	9	18
11	Midterm Project	0	0	0
12	Midterm Exercise	0	0	0
13	Final Project	0	0	0
14	Final Exercise	0	0	0
15	Preparation for Final Exam	1	27	27
16	Final Exam	1	3	3
				150