



## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Statistical Evaluation Techniques							
Course Code		LBT217		Course Level		Short Cycle (Associate's Degree)			
ECTS Credit	2	Workload	50 (Hours)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course		At the end of this course, students will learn basic statistical analysis methods that will enable students to understand basic probability and statistics concepts and use them in their own fields.							
Course Content		Normal and Standard Normal Distribution, Kikare - Tests, Probability Tables, Hypothesis Tests, Simple Linear Regression Analysis, Probability, Random Variables and Probability Distributions, Frequency Distributions, General Graphs, Descriptive Statistics: Central Tendency Measurements and Distribution Measures							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Case Study					
Name of Lecturer(s)									

### Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	70

### Recommended or Required Reading

1	Şanslı Şenol, "Tanımlayıcı İstatistik", Nobel Yayın Dağıtım, ISBN 978-605-395-146-9
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Week	Weekly Detailed Course Contents	
1	Theoretical	Basic statistical concepts
2	Theoretical	Frequency distribution table
3	Theoretical	Main graphics
4	Theoretical	Central tendency measures: Arithmetic mean, Median, Mode
5	Theoretical	Variability measures: Openness, Variance and Standard Deviation
6	Theoretical	Probability: Basic Definitions of Probability Concept
7	Theoretical	Random Variables and Functions
8	Intermediate Exam	Mid-term Exam
9	Theoretical	Continuous Random Variables and Functions
10	Theoretical	Normal Distribution, Standard Normal Distribution
11	Theoretical	Hypothesis Thesis, Mass Average Based Single Sample Z-Test
12	Theoretical	Single Sample T-Test Based on Mass Average
13	Theoretical	Simple Linear Regression Analysis
14	Theoretical	Kikare Tests and Distribution
15	Theoretical	Kikare Tests and Distribution
16	Final Exam	Final Exam

### Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Midterm Examination	1	10	1	11
Final Examination	1	10	1	11
Total Workload (Hours)				50
[Total Workload (Hours) / 25*] = ECTS				2

\*25 hour workload is accepted as 1 ECTS

### Learning Outcomes

1	Knowledge of basic statistical concepts
2	Basic probability knowledge



3	Basic concept knowledge about hypothesis testing
4	Statistical tables reading information
5	To comprehend the basic definitions of the concept of probability

**Programme Outcomes (Laboratory Technology)**

1	To be able to comprehend social, cultural and social responsibilities, to be able to follow national and international contemporary problems and developments
2	Atatürk is bound to Atatürk nationalism in the direction of principles and reforms; Adopting the national, moral, spiritual and cultural values of the Turkish people, open to universal and contemporary developments, the Turkish language is a rich, rooted and productive language; Have a love of language and a consciousness; To have the ability to use as much of a foreign language as he would need to read, taste and habit and professionally.
3	To be able to recognize the basic hardware units and operating systems of a computer, having information about internet usage and preparing documents, spreadsheets and presentations on computer by using office programs.
4	Acquires theoretical and practical knowledge at the basic level in mathematics, science and vocational field.
5	With the knowledge of laboratory technology in the field, he knows and analyzes problems, brings interpretation of data and suggests solutions.
6	In laboratories, according to the prepared business plan and program, necessary work can be done to obtain the desired quality products.
7	To have professional and ethical responsibility in business life.
8	Development and change are open, follow scientific social and cultural innovations, and develop themselves constantly.

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

	L1	L2	L3	L4
P4	5	5	5	5
P7	3	3	3	3
P8	5	5	5	5

