# AYDIN ADNAN MENDERES UNIVERSITY
# COURSE INFORMATION FORM

| Course Title | Statistical Evaluation Techniques | | | | | |
|---|---|---|---|---|---|---|
| Course Code | LBT217 | | Couse 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 |
|---|---|

| 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 *(Organic Agriculture)*

| 1 | |
|---|---|
| 2 | |
| 3 | |
| 4 | |
| 5 | |
| 6 | |
| 7 | |
| 8 | |
| 9 | |
| 10 | |
| 11 | |

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

| | L1 | L2 | L3 | L4 | L5 |
|---|---|---|---|---|---|
| P3 | 3 | 3 | 3 | 3 | 3 |
| P10 | 3 | 3 | 3 | 3 | 3 |