



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

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|--|---|---|----------------------|---|---|--------------------------------|---|------------|---|
| Course Title | | Statistical Data Analysis | | | | | | | |
| Course Code | | EFN573 | | Course Level | | Second Cycle (Master's Degree) | | | |
| ECTS Credit | 5 | Workload | 125 (<i>Hours</i>) | Theory | 3 | Practice | 0 | Laboratory | 0 |
| Objectives of the Course | | To teach the concept, method and application approaches about compilation, analysis and interpretation of different statistical data that can be encountered. | | | | | | | |
| Course Content | | Examining and analyzing different types of data, comparing different analysis methods, interpreting the results and computer applications | | | | | | | |
| Work Placement | | N/A | | | | | | | |
| Planned Learning Activities and Teaching Methods | | | | Explanation (Presentation), Demonstration | | | | | |
| Name of Lecturer(s) | | | | | | | | | |

Assessment Methods and Criteria

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

Recommended or Required Reading

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| 1 | Paul Newbold, Statistics for Business and Economics ,Literatür Yayıncılık, 2005, İstanbul |
| 2 | Kazım Özdamar, Statistical Data Analysis with Package Programs, Cilt:I- II, Şubat 2013 |

| Week | Weekly Detailed Course Contents | |
|------|---------------------------------|--|
| 1 | Theoretical | Introduction to Statistics |
| 2 | Theoretical | Data, Data Sources, Data Collection Techniques |
| 3 | Theoretical | Summarizing and Interpreting the Data |
| 4 | Theoretical | Hypothesis Tests |
| 5 | Theoretical | Comparison of Means: T Tests |
| 6 | Theoretical | One Way ANOVA Analysis |
| 7 | Theoretical | Two Way ANOVA Analysis |
| 8 | Intermediate Exam | Midterm |
| 9 | Theoretical | Nonparametric Tests |
| 10 | Theoretical | Correlation And Simple Regression Analysis |
| 11 | Theoretical | Multiple Regression Analysis |
| 12 | Theoretical | Factor Analysis and Practices |
| 13 | Theoretical | Sample practices with SPSS |
| 14 | Theoretical | Sample practices with SPSS |
| 15 | Theoretical | Sample practices with SPSS |
| 16 | Final Exam | Final Exam |

Workload Calculation

| Activity | Quantity | Preparation | Duration | Total Workload |
|---------------------------------------|----------|-------------|----------|----------------|
| Lecture - Theory | 14 | 2 | 3 | 70 |
| Individual Work | 7 | 2 | 2 | 28 |
| Midterm Examination | 1 | 10 | 1 | 11 |
| Final Examination | 1 | 15 | 1 | 16 |
| Total Workload (Hours) | | | | 125 |
| [Total Workload (Hours) / 25*] = ECTS | | | | 5 |

*25 hour workload is accepted as 1 ECTS

Learning Outcomes

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|---|---|
| 1 | Collecting data to be used in decision making process |
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| 2 | To have knowledge about the methods used for data analysis and to distinguish between them |
| 3 | To be able to apply statistical data collection methods and tools |
| 4 | Determining the relationship between the variables used in the decision making process |
| 5 | To be able to interpret statistical analysis |

Programme Outcomes (Economics and Finance Interdisciplinary Master)

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|---|---|
| 1 | To be able to use the basic concepts in the field of economics and finance correctly |
| 2 | To be able to comprehend philosophical, social, historical and psychological principles influencing economics and finance |
| 3 | To be able to analyze economical and financial events theoretically and empirically |
| 4 | To be able to evaluate any economical and financial problem in accordance with scientific principles |
| 5 | To be able to prepare solutions for an economical or financial problem cooperatively in accordance with principles and criteria |
| 6 | To be able to follow contemporary implementations, and national and international academic publications |
| 7 | To be able to prioritize scientific methods and ethical principles in economics and finance while considering and implementing field specific professional issues |
| 8 | To be willing to do scientific research in the field of economics and finance |
| 9 | To be able to create value for economics and finance profession as a professional identity |

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 | 3 | 4 | 4 | 3 | 5 |
| P2 | 3 | 4 | 3 | 4 | 4 |
| P3 | 4 | 3 | 4 | 3 | 5 |
| P4 | 3 | 5 | 3 | 4 | 3 |
| P5 | 4 | 4 | 3 | 4 | 4 |
| P6 | 5 | 3 | 5 | 4 | 4 |
| P7 | 4 | 3 | 5 | 3 | 3 |
| P8 | 5 | 4 | 4 | 4 | 5 |
| P9 | 4 | 3 | 3 | 3 | 4 |

