



## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Statistics and Computer Applications							
Course Code		LYM515		Couse Level		Second Cycle (Master's Degree)			
ECTS Credit	5	Workload	127 ( <i>Hours</i> )	Theory	3	Practice	0	Laboratory	0
Objectives of the Course		The aim of this course is to teach basic statistical analysis methods and to gain the ability to use these methods with the help of statistical package programs.							
Course Content		Basic concepts of statistics, methods for summarizing and presenting data, descriptive statistics, statistical hypothesis testing, parametric and nonparametric methods, regression analysis.							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Discussion, Individual Study					
Name of Lecturer(s)		Assoc. Prof. Algin OKURSOY							

### Assessment Methods and Criteria

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

### Recommended or Required Reading

1	Green S. B., Salkind N. J., 2014, Using SPSS for Windows and Macintosh.
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Week	Weekly Detailed Course Contents	
1	Theoretical	Basic concepts in statistics
2	Theoretical	Entering data into the package program, calculating and interpreting descriptive statistics
3	Theoretical	Charts for qualitative and quantitative data
4	Theoretical	Relationship concept and cross tables
5	Theoretical	Concept of hypothesis testing and hypothesis testing for single group
6	Theoretical	Hypothesis testing for two independent groups
7	Theoretical	Hypothesis testing for two dependent groups
8	Theoretical	One and two-way analysis of variance
9	Intermediate Exam	Midterms
10	Intermediate Exam	Midterms
11	Theoretical	Pairwise Comparisons
12	Theoretical	Covariance analysis
13	Theoretical	Nonparametric tests
14	Theoretical	Nonparametric tests
15	Theoretical	Simple linear regression analysis
16	Final Exam	Finals

### Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	13	0	3	39
Reading	13	0	2	26
Midterm Examination	1	25	1	26
Final Examination	1	35	1	36
Total Workload (Hours)				127
[Total Workload (Hours) / 25*] = ECTS				5
*25 hour workload is accepted as 1 ECTS				

### Learning Outcomes

1	Uses graphical methods and numerical methods to define and summarize data
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2	Interpret the results
3	Determines the analysis to be applied according to the type of variable.
4	Makes parametric and nonparametric hypothesis tests
5	Models and analyzes relationships between variables.

**Programme Outcomes (Logistics Management Interdisciplinary Master)**

1	Being able to contribute to the institution the participant works for and the logistics sector by the use of the knowledge and abilities gained during the education period; and manage change in the institution and the sector;
2	Reaching a competency about contemporary business and technology applications in the area of logistics and supply chain management and analysis and strategy development methods;
3	Being able to create opportunities by combining supply chain management with information technologies and innovative processes by the use of the interdisciplinary courses the participants take;
4	Having the ability to develop creative solutions by working on global logistics and supply chain subjects and realizing these by the use of their project management knowledge;
5	Having the knowledge, abilities and capabilities required for effective logistics and supply chain management by the use of a problem and case analysis based learning;
6	Being able to examine logistics and supply chain processes with the management science viewpoint, analyze related concepts and ideas by scientific methods;
7	If continuing to work in the academia, having the necessary information on logistics applications; if continuing to work in the sector, having the necessary knowledge on conceptual subjects;
8	Being able to specify appropriate research questions about his/her research area, conduct an effective research with the use of necessary methods and apply the research outcomes in the sector or the academia;
9	Being able to follow the changes and developments in the sector the participant works in, in order to keep his/her personal and professional competence updated and develop himself/herself when necessary;
10	Have the necessary capabilities to pursue doctoral studies in national and foreign institutions

**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	3	3	2	3
P2	3	3	3	3	3
P3	3	3	4	5	3
P4	2	4	4	4	4
P5	1	4		4	4
P6	2	5	5	5	5
P7	3	5	3	5	5
P8	3	3		2	2
P9	3	3	2	3	2
P10		3	2	5	2

