AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title	Basic Statistics								
Course Code	EK172		Couse Level	First Cycle (Bachelor's Degree)					
ECTS Credit	5	Workload	123 *(Hours)*	Theory	3	Practice	0	Laboratory	0
Objectives of the Course	The main objective of the course is to give the student an elementary introduction to the practice of statistics. This course will give insight into how an analyst gathers, summarizes, and draws conclusions from economical or business data. At the end of the course, the student should be a critical consumer of this information.								
Course Content	Basic definitions and consepts of statistics, variable definitions, frequency distributions for quantitavive variables, frequency distributions of qualitative variables, graphics, measures of central tendency and measures of dispersion, application of methods using statistical software								
Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Explanation (Presentation), Individual Study, Problem Solving								
Name of Lecturer(s)	Lec. Mesut ÇAKIR								

Assessment Methods and Criteria		
Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	70

Recommended or Required Reading	
1	J.E. Freund, Modern Elementary Statistics, 2004.
2	İşletme ve İktisat İçin İstatistik, 2009, Literatür Yayın evi, Paul Newbold (çeviren Ümit Şenesen)

Week	Weekly Detailed Course Contents	
1	Theoretical	Introduction to statistics, basic concepts, statistic, population, parameter, variable, data
2	Theoretical	Gathering data, classifying, graphical representations, frequency distributions, pie nd bar charts, time series charts, scatter diagrams, histograms, frequency poligons.
3	Theoretical	Measures of central tendency: mean, mode, median, geometric mean, harmonic mean, quartiles.
4	Theoretical	Measures of variation and asymmetry: range, Standard deviation, variance, absolute deviation, men absolute deviation.
5	Theoretical	Measures of Dispersion: standard deviation, variance, interquartile range, standard error, skewness, kurthosis
6	Practice	Excel Applications
7	Practice	Excel Applications
8	Intermediate Exam	Midterm Exam
9	Theoretical	Discrete and Continuous Probability Distributions. -Binomial Distribution -Poisson Distribution -Normal Distribution
10	Theoretical	Discrete and Continuous Probability Distributions. -Binomial Distribution -Poisson Distribution -Normal Distribution
11	Theoretical	Sampling and Sampling Distributions. -Sampling Distributions -Sampling Distribution of Means -Sampling Distribution of Proportions -Sampling Distributions of Differences and Sums
12	Theoretical	Estimation of Parameters, Point Estimates and Interval Estimates; Interval Estimates of Population
13	Theoretical	Confidence Intervals -Confidence intervals for the mean -Confidence intervals for differences and sums
14	Theoretical	Estimation of Parameters Point Estimates and Interval Estimates; Their Reliability Confidence-Interval Estimates of Population
15	Practice	Excel applications
16	Final Exam	Final Exam

Workload Calculation				
Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	2	3	70
Individual Work	7	3	2	35

Midterm Examination	1	8	1	9
Final Examination	1	8	1	9
			Total Workload (Hours)	123
			[Total Workload (Hours) / 25*] = **ECTS**	5
**25 hour workload is accepted as 1 ECTS*				

Learning Outcomes	
1	To be able to understand the relation of science and statistics
3	To be able to use measures of central tendency and variation
4	To be able to present frequencies with graphs
5	To be able to classify variables with regard to their features
6	To be able to identify the shape of the distribution by using the measures of central tendency

Programme Outcomes *(Economics)*	
1	To be able to understand and interprent the concepts, theories and methds of basic economics
2	To be able to apply mathematical, statistical and econometric analysis tools to economic problems
3	To be able to interpret the structure and characteristics of the markets in the economy by understanding the current economic events
4	To be able to define the role of innovation, creativity and technology concepts in the dynamic global economy.
5	To be able to prepare projects and to gain creativity skills
6	To be able to analyze macro and micro ekonomic activities.
7	To be able to adapt the philosophy of lifelong learning

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

	L1	L3	L4	L5	L6
P1	3	4	3	4	3
P2	4	3	3	4	3
P3	3	4	3	4	3
P4	4	4	3	4	3
P5	3	4	4	4	3
P6	3	4	4	4	3
P7	3	4	4	4	3