AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title	Applied Statistics								
Course Code	ISL330		Couse Level	First Cycle (Bachelor's Degree)					
ECTS Credit	5	Workload	125 *(Hours)*	Theory	3	Practice	0	Laboratory	0
Objectives of the Course	Objective of this course is to enable students to be qualified in quantitative research designs and to be able to analyze data effectively by using statistical programs.								
Course Content	The contents of the course include topics such as: population, sample, Quantitative Research Design, questionnaire creation, SPSS usage.								
Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Explanation (Presentation), Problem Solving								
Name of Lecturer(s)									

Assessment Methods and Criteria		
Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	60

Recommended or Required Reading	
1	Neyran ORHUNBİLGE, Çok Değişkenli İstatistik Yöntemler

Week	Weekly Detailed Course Contents & Teaching Methods	
1	Theoretical	Introduction to Forecasting Techniques
2	Practice	Simple Regression and Correlation Analysis
3	Practice	Hypothesis Testing in Simple Regression and Correlation Analysis
4	Practice	Nonlinear (Curve) Regression Analysis
5	Practice	Multiple Regression and Correlation Analysis
6	Theoretical	Hypothesis Testing in Multiple Regression and Correlation Analysis
7	Theoretical	Assumptions of regression analysis (multiple linear connection, autocorrelation)
8	Intermediate Exam	Midterm Assessment Course
9	Theoretical	Assumptions of regression analysis (multiple linear connection, autocorrelation)
10	Theoretical	Price Indices
11	Theoretical	Decomposition Method in Time Series Analysis (Annual Data)
12	Theoretical	Decomposition Method in Time Series Analysis (Monthly and Seasonal Data)
13	Theoretical	Smoothing Techniques (Moving Averages)
14	Theoretical	Exponential Smoothing Techniques

Workload Calculation				
Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	2	3	70
Midterm Examination	1	25	1	26
Final Examination	1	28	1	29
			Total Workload (Hours)	125
			[Total Workload (Hours) / 25*] = **ECTS**	5
**25 hour workload is accepted as 1 ECTS*				

Learning Outcomes	
1	Explains descriptive statistics.
2	Applies inferential statistical analyses.
3	Performs data analysis using SPSS and Excel.
4	Interprets business data.

5	Generates decision-supporting statistical outputs.
6	Reports statistical results.

Programme Outcomes *(Economics)*	
1	Understands the fundamental concepts and theories of economics and analyzes economic events within microeconomic and macroeconomic frameworks.
2	Comprehends the historical development of economic theories and applies them to current economic issues.
3	Follows, analyzes, and evaluates international, national, regional and sectoral economic developments within the scope of economic policies.
4	Understands the connections between economics and related disciplines such as law, business, accounting, finance, and sociology for economic analysis.
5	Designs economic research, collects data using qualitative and quantitative methods, conducts analysis, and interprets results.
6	Tests economic theories using econometric methods and derives scientific and policy recommendations.
7	Uses basic computer programs and statistical software to process, visualize, and interpret economic data.
8	Communicates economic concepts and research findings clearly and effectively, both in writing and verbally, to experts and the general public.
9	Has basic level proficiency in English as a foreign language to follow developments in the field .
10	Works independently, takes initiative, and assumes responsibility in team settings.
11	Adopts a lifelong learning approach and continuously develops critical, analytical, and innovative thinking skills.
12	Conducts economic analyses on sustainable development, income equality, and social welfare while adhering to ethical values and demonstrating social responsibility.

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

	L1	L2	L3	L4	L5	L6
P1	4	3	3	4	4	3
P2	2	3	2	3	3	2
P3	2	2	2	3	3	2
P4	3	2	2	3	3	2
P5	3	4	3	4	5	3
P6	3	5	4	4	4	3
P7	4	4	5	4	4	4
P8	3	3	3	3	4	5
P9	1	1	1	1	1	1
P10	2	2	2	3	3	3
P11	3	3	3	3	3	3
P12	2	2	2	2	3	2