ANKARA YILDIRIM BEYAZIT UNIVERSITY – DEPARTMENT OF ECONOMICS
COURSE SYLLABUS

Course Code	Course Title	Course Type	ECTS Credits	Prerequisite Information	Date of Preparation
ECON215	Introduction to Statistics	Compulsory/ Elective	6	-	-

Instructor of the Course & E-Mail Address	Dr. Ayşe Nur Şahinler aysenursahinler@aybu.edu.tr
Office Hours & Office Room	B366- Thursday 12.00-14.00
Course Content and Objectives	This course provides a comprehensive introduction to the fundamental principles and methods of statistics with applications in the social sciences. It covers descriptive techniques for data presentation, including both graphical and numerical approaches, and introduces the theoretical foundations of probability and random variables. Particular emphasis is placed on sampling techniques and their application in empirical research. The course also addresses point and interval estimation, hypothesis testing
Textbook(s)	Paul Newbold, Betty M. Thorne, William L. Carlson (Statistics for Business and Economics)
Teaching Methods and Techniques	Theoretical lectures combined with practical exercises and problem solving during class sessions.

Course Learning Outcomes	1	To use descriptive statistical measures and graphical methods for data analysis and interpretation
	2	To Apply probability theory and statistical reasoning analyzing empirical problems
	3	To utilize appropriate statistical terminology and concepts conducting inference based on sample data including estimation and hypothesis testing
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Program Outcomes Contributed by the Course	**Program Outcomes (PO)**	
	P3	Ability to collect data, conduct analysis, make scientific evaluations and suggest policy implications using economic research methods
	P5	Ability to apply mathematical, statistical and econometric analysis tools to economic problems
	P4	Ability to follow and interpret national and international economic indicators and developments
Contribution of the Course to Field Instruction		

Topics Covered in the Course		
	1. Week	Introduction
	2. Week	Descriptive Statistics: Numerical and Graphical Methods
	3. Week	Probability Theory
	4. Week	Discrete Random Variables and Probability Distributions
	5. Week	Discrete Random Variables and Probability Distributions
	6. Week	Continuous Random Variables and Probability Distributions
	7. Week	Continuous Random Variables and Probability Distributions
	8. Week	Midterm Week
	9. Week	Sampling and Sampling Distributions
	10. Week	Sampling and Sampling Distributions
	11. Week	Sampling and Sampling Distributions
	12. Week	Estimation (Point and Interval)
	13. Week	Estimation (Point and Interval)
	14. Week	Hypothesis Testing
	15. Week	Final Exam

Course Evaluation Criteria	In-Term Studies	Quantity	Percentage %	
	Mid-terms	1	%40	
	Quizzes		%	
	Assignments		%	
	Attendance		%	
	Practice		%	
	Project		%	
	Final examination	1	%60	
	Total	**2**	**100%**	

Disability Policy	If you have a documented disability (e.g., visual, hearing, or physical impairment, etc.) that may influence your performance in this course, it is recommended to meet with the Engelsiz AYBU (https://aybu.edu.tr/engelsiz/content_list-327-yildirim-beyazit-universitesi-engelsiz-universite-birimi-yonergesi.html) to arrange for reasonable conditions (such as accommodation, etc.) to ensure an equitable opportunity to meet all the requirements of this course. You may also contact the local authority of the Faculty of Political Sciences. You should communicate your needs to the course instructor as soon as possible to ensure that any course needs concerning exams, lecture materials, etc. are met.