Identification	Subject	BSA 215 Statistical Methods for Economics and			
	D	Business– 3KU/6ECTS credits			
	Program	Undergraduate			
	Department Term	School of Economics and Management			
	Instructor	Fall Semester of 2023 Leyla Bayramova			
	E-mail	leyla.mustafayeva.96@bk.ru,			
	L-man	mustafayevaleyla@khazar.org			
	Classroom/hours	Monday: 13:40-15:10, Monday: 15:20-16:50			
	Language	English			
Prerequisites	MATH 215				
Compulsory/ Elective	Compulsory				
Textbooks and	1) Paul Newbold, William L.Carlson and Betty M.Thorne "Statistics				
course materials					
	2) Levine, Krehbiel, Berenson, "Business Statistics: A First				
	Course``, 5 th edition, 2010.				
	3) Basic Statistics for Business and Economics, Douglas A. Lind, William G. Marchal, Samuel A. Wathen, Published by McGraw-Hill				
			then, Fublished by McGraw-Hill		
	Education, 20)13			
	Supplementary book:				
	Statistics for Managers Using Microsoft Excel by D. Levine, D.Stephan, T.Krehbiel, M.Berenson, 6 th edition, 2011.				
Grading System	Methods		Percentage (%)		
	Midterm Exam		30		
	Group Project				
	Quizzes		20		
	Activity		5		
	Attendance		5		
	Final Exam		40		
	Total		100		
Course objective	The first course in the core statistics sequence cover topics in Probability				
and content		Theory and Mathematical Statistics. The main purpose of these courses is to			
	provide you with a fo	oundation of statistics a	and probability. The tools learned		
		9	ocks for the other econometrics'		
	_		urses will be on basic principles,		
	including among other things: probability, random variables, conditional				
	probability, probability densities and distributions, characteristic functions,				
	test statistic formulation and distribution theory, statistical inference, and basic regression. Emphasis will be placed on applied problem solving using				
i e	I the tools learned in the	he class			
Compulsory/ Elective Textbooks and course materials Grading System Course objective	1) Paul Newbold for Business 2) Levine, Kreh Course`, 5 th 3) Basic Statistic William G. M. Education, 20 Supplementary bood Statistics for Managar T. Krehbiel, M. Beren Methods Midterm Exam Group Project Quizzes Activity Attendance Final Exam Total The first course in target Theory and Mathemar provide you with a few in these courses are courses in the sequence including among other probability, probabilitiest statistic formula	and Economics", 8 th obiel, Berenson, "Businedition, 2010. cs for Business and Economics and Econom	edition, 2013. (NW) ness Statistics: A First conomics, Douglas A. Lind, then, Published by McGraw-Hi Excel by D. Levine, D.Stephan, Percentage (%) 30 20 5 5 40 100 ence cover topics in Probabilitatin purpose of these courses is and probability. The tools learned ocks for the other econometric curses will be on basic principle by, random variables, condition butions, characteristic function theory, statistical inference, and		

Learning Outcomes	After this course, students will be able to calculate descriptive and numerical measures and probabilities based on both sample and population datasets to make initial inferences about population parameters. Furthermore, they will acquire skills to test population parameters by using Hypothesis testing based on sample observations. During the lectures, students will obtain insights about the involvement of statistical methods in real business and economic applications.			
Policy	 Quiz Quiz will worth 20% of final grade. It is planned to hold in the fourth, tenth and thirteenth week of Semester. It is planned to be conducted on university if education is face to face and will be consists of Multiple-choice and open questions. Exam time will be 60 minutes. Further details about quiz will be communicated by Instructor. Attendance Policy 			
	5 % of final grade will be given for class attendance. Students should attend all classes. The proof of reason for unavoidable absence must be provided by student. In this case, the absence will not be resulted with grade subtraction.			
	Students should come to the classes on time. Late arrival more than 10 minutes will be resulted as absence on the attendance sheet. In case of late arrival, student must inform Instructor in advance.			
	Important Note: If the student miss 25% of all classes during the semester, he or she will not be allowed to participate in examination.			
	- Class participation in this course:			
	5% of the final grade will be given for class participation. It is required from students to contribute to the class discussion and actively participate in team works. The quality of contribution will be the main factor not the quantity of contribution.			
Academic Dishonesty	Students are expected to conduct themselves in a professional manner. Academic dishonesty such as plagiarism and cheating will not be tolerated. Therefore, students are expected to be honest and ethical in their academic work. Cases of academic dishonesty will be immediately reported to the			
Office Hours	Director's office for disciplinary action. The instructor will be available to consult with students regarding class related questions regularly by appointment. Meetings with students outside office hours should be scheduled in advance by sending an e-mail to the instructor.			

***	Date/Day	m :	TD 41 1/A : 4
Week	(Tentative)	Topics	Textbook/Assignments
1	18.09.23	Introduction to Statistics. Basic definitions and	
	18.09.23	terminologies	Chapter 1 (NW)
	25.09.23		
2	25.09.23	Using Graphs to Describe Data	Chapter 1 (NW)
3	02.10.23		Chapter 2 (NW)
	02.10.23	Using Numerical Measures to Describe Data	
4	09.10.23		Chapter 3 (NW)
	09.10.23	Elements of Chance: Probability Methods	(Quiz1)
	16.10.23		
5	16.10.23	Conditional Probability and Bayes Theorem	Chapter 3 (NW)
(23.10.23		
6	23.10.23	Discrete Probability Distributions	Chapter 4 (NW)
7	30.10.23	Continuous Prohability Distribution	
/	30.10.23	Continuous Probability Distribution	Chapter 5 (NW)
8	06.11.23		
	06.11.23	Sampling Distribution of Sample Means Midterm exam	Chapter 6 (NW)
9	13.11.23		
	13.11.23	Sampling Distribution of Sample Proportion	Chapter 6 (NW)
10	20.11.23	Confidence Interval Estimation of Unknown	Chapter 7 (NW)
	20.11.23	Population Mean	(Quiz 2)
11	27.11.23	Confidence Interval Estimation of Unknown	Chapter 7 (NW)
	27.11.23	Population Mean when population variance in unknown	
10	04.12.23		Chapter 8 (NW)
12	04.12.23	Confidence Interval Estimation: Further Topics	(Quiz 2)

13	11.12.23	Hypothesis Tests of Single Population	Chapter 9 (NW) (Quiz 3)
14	18.12.23	Analysis of variance. Linear regression	Chapter 10 (NW)
	18.12.23	correlation analysis	
15	25.12.23	Multiple regression analysis	Chapter 11 (NW)
	25.12.23		
	TBA	Final Exam	

This syllabus is a guide for the course and any modifications to it will be announced in advance.