Identification	Subject	BSA 250 Statistical Methods for Economics and			
	Duo anom		Business 6 ECTS		
	Program	Undergraduate	and Management		
	Department	School of Economics a	and Management		
	Term Instructor	Fall, 2024 Leyla Bayramova			
		•	21.1		
	E-mail	leyla.mustafayeva.96@bk.ru, mustafayevaleyla@khazar.org			
	Classroom/hours		•		
	Language	Wednesday: 13:40-15:10, 15:20-16:50 English			
Prerequisites	MATH 101	English			
Compulsory/	Compulsory	Compulsory			
Elective	1 ,				
Textbooks and			Betty M.Thorne ``Statistics for		
course materials		Economics'', 8th edition			
		oiel, Berenson, <b>``Busine</b>	ss Statistics: A First Course``, 5 <sup>th</sup>		
	edition, 2010.				
			nomics, Douglas A. Lind, William		
		amuel A. Wathen, Publi	shed by McGraw-Hill Education,		
	2013				
	Supplementary book	•			
			cel by D. Levine, D.Stephan,		
	T.Krehbiel, M.Berenson, 6 <sup>th</sup> edition, 2011.				
Grading System	Methods		Percentage (%)		
Grading System	Methods Midterm Exam		Percentage (%)		
Grading System			9		
Grading System	Midterm Exam		30		
Grading System	Midterm Exam Quizzes		30 20		
Grading System	Midterm Exam Quizzes Activity		30 20 5		
Grading System	Midterm Exam Quizzes Activity Attendance		30 20 5 5		
Grading System  Course outline	Midterm Exam Quizzes Activity Attendance Final Exam Total	core statistics sequence	30 20 5 5 40		
G ,	Midterm Exam Quizzes Activity Attendance Final Exam Total The first course in the	-	30 20 5 5 40 100 cover topics in Probability Theory		
G ,	Midterm Exam Quizzes Activity Attendance Final Exam Total The first course in the and Mathematical State	istics. The main purpose	30 20 5 5 40 100 cover topics in Probability Theory e of these courses is to provide you		
G ,	Midterm Exam Quizzes Activity Attendance Final Exam Total The first course in the and Mathematical Stat with a foundation of s	istics. The main purpose tatistics and probability.	30 20 5 5 40 100 cover topics in Probability Theory e of these courses is to provide you. The tools learned in these courses		
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Course outline	Midterm Exam  Quizzes  Activity  Attendance  Final Exam  Total  The first course in the and Mathematical Stat with a foundation of s are essential building to be probability, random v distributions, character	tatistics. The main purpose tatistics and probability blocks for the other economic will be on basic principariables, conditional proristic functions, test states.	30 20 5 5 40 100 cover topics in Probability Theory e of these courses is to provide you. The tools learned in these courses nometrics' courses in the sequence. ples, including among other things: obability, probability densities and attistic formulation and distribution		
Course outline	Midterm Exam  Quizzes  Activity  Attendance  Final Exam  Total  The first course in the and Mathematical Stat with a foundation of s are essential building before the probability, random v distributions, characte theory, statistical infe	tatistics. The main purpose tatistics and probability. plocks for the other econ will be on basic principariables, conditional pro- ristic functions, test sta- rence, and basic regres	30 20 5 5 40 100 cover topics in Probability Theory e of these courses is to provide you. The tools learned in these courses mometrics' courses in the sequence. ples, including among other things: obability, probability densities and attistic formulation and distribution assion. Emphasis will be placed on		
Course objectives	Midterm Exam  Quizzes  Activity  Attendance  Final Exam  Total  The first course in the and Mathematical Stat with a foundation of s are essential building to be probability, random v distributions, characte theory, statistical infe applied problem solving	tatistics. The main purpose tatistics and probability blocks for the other economic will be on basic principariables, conditional proristic functions, test states.	30 20 5 5 40 100 cover topics in Probability Theory e of these courses is to provide you. The tools learned in these courses mometrics' courses in the sequence. ples, including among other things: obability, probability densities and attistic formulation and distribution assion. Emphasis will be placed on		
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-	During the lectures, students will obtain insights about the involvement of
	statistical methods in real business and economic applications.

# **Policy**

#### - Quiz

Each Quiz will worth 5% 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 30 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 15 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 Director's office for disciplinary action.

### - Office Hours

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			
Week	(Tentative)	Topics	Textbook/Assignments	
	18.09.24	Introduction to Statistics. Basic definitions and		
1	18.09.24	terminologies	Chapter 1 (NW)	
2	25.09.24			
2	25.09.24	Using Graphs to Describe Data	Chapter 1 (NW)	
2	02.10.24		Chapter 2 (NW)	
3	02.10.24	Using Numerical Measures to Describe Data		
4	09.10.24		Chapter 3 (NW)	
4	09.10.24	Elements of Chance: Probability Methods	(Quiz 1)	
	16.10.24			
5	16.10.24	Conditional Probability and Bayes Theorem	Chapter 3 (NW)	
	23.10.24			
6	23.10.24	Discrete Probability Distributions	Chapter 5 (NW)	
7	30.10.24	Continuos Probabilita Distribution		
7	30.10.24	Continuous Probability Distribution	Chapter 5 (NW)	
8	06.11.24	Sampling Distribution of Sample Means		
	06.11.24	Sampling Distribution of Sample Proportion  Midterm exam	Chapter 6 (NW)	
9	13.11.24			
	13.11.24	Holiday		
	20.11.24			
10		Confidence Interval Estimation of Unknown	Chapter 7 (NW) (Quiz 2)	
	20.11.24	Population Mean	(Quiz 2)	
	27.11.24	Confidence Interval Estimation of Unknown	Chapter 7 (NW)	
11	27.11.24	Population Mean when population variance in unknown		

12	04.12.24	Confidence Interval Estimation: Further Topics	Chapter 8 (NW)
13	11.12.24	Hypothesis Tests of Single Population	Chapter 9 (NW)
14	18.12.24 18.12.24	Analysis of variance. Linear regression correlation analysis	Chapter 10 (NW) (Quiz 3)
15	25.12.24 25.12.24	Multiple regression analysis	Chapter 11 (NW)
	TBA	Final Exam	

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