

Syllabus(tentative)	Subject	MGT 800: Applied Business Statistics - 3KU/6ECTS credits	
	Department	Economics and Management	
	Program	Graduate	
	Term	Fall 2022	
	Instructor	Fateh Israfilzada	
	E-mail	fateh.israfilzada@khazar.org	
	Classroom/hours	Bashir Safaroglu 122, Room	
Language	English		
Compulsory/Elective	Compulsory		
Textbooks and course materials	Core Textbooks: <i>CFA LEVEL I and CFA LEVEL II programs; Quantitative methods core unit</i>		
Course outline	The course covers describing and organizing data, probability concepts, probability distributions, sampling and sampling distributions, confidence interval estimation, test of hypothesis, analysis of variance and decision-making. Business and economics applications are used to illustrate these concepts		
Course objectives	To equip students with basic statistical methods used, show them the relevance of statistics in functional areas in Business and Economics and familiarize them with statistical programs used in the business world.		
Learning Outcomes	Having completed the course students will be able to: <ul style="list-style-type: none">• Understand basic properties of data sets and their graphs• Understand and apply probability concepts into business areas• Construct confidence intervals and run significance tests about hypothesis		
Teaching methods	Case analysis		X
	Lecture		X
	Problem Solving		X
Evaluation Criteria	Methods	Date/deadlines	Percentage (%)
	Midterm Exam		30
	Activity		5
	Attendance		5
	Homework		15
	Final Exam		40
	Other (Case analysis)		5
	Total		100
Policy	<p>Activity/Participation. Because of the once-a-week course format, students are expected to attend all sessions. If you have an absence, take responsibility for making up assignments and for obtaining missed lecture information. Participation is important for doing well in the course. You'll be graded for your active engagement with the material and your peers. The activity and participation will account for 10 % of the total course grade.</p> <p>Class preparation. Students are responsible for: 1) reading the assigned materials; 2) taking the initiative to ask questions that promote understanding of the academic subject; 3) communicating regularly with the instructor, especially in matters related to class assignments.</p> <p>Homework/Case analysis. The structure and format of the homework may include multiple choice and open-ended questions. Analysis of the assigned case will be conducted by each student. Homework and case analysis will account for 20 % of the final grade.</p> <p>Cheating/Plagiarism. Academic integrity is fundamental to the activities and principles of a university. Breaches of the academic integrity will lead to assignment cancellation. When in doubt about plagiarism or any other form of cheating, consult the course instructor</p>		

Tentative Schedule			
Week	Date (tentative)	Topics	Textbook/Assignments
1		Time value of money	CFA LEVEL I, QM
2		Organizing, visualizing and describing data	CFA LEVEL I, QM
3		Displaying and exploring data	CFA LEVEL I, QM
4		Probability concepts I	CFA LEVEL I, QM
5		Probability concepts II	CFA LEVEL I, QM
6		Common probability distributions I	CFA LEVEL I, QM
7		Common probability distributions II	CFA LEVEL I, QM
8		Mid-term Exam.	
9		Sampling and estimation	CFA LEVEL I, QM
10		Hypothesis testing I	CFA LEVEL I, QM
11		Hypothesis testing II	CFA LEVEL I, QM
12		Introduction to linear regression	CFA LEVEL I, QM
13		Multiple regression analysis I	CFA LEVEL II, QM
14		Multiple regression analysis II	CFA LEVEL II, QM
15		Recap	
		Final exam	