

<b>Identification</b>	<b>Department</b>	Economics and Management	
	<b>Program</b>	Graduate	
	<b>Subject</b>	MGT 800: Applied Business Statistics - 3KU/6ECTS credits	
	<b>Term</b>	Fall 2019	
	<b>Instructor</b>	Dr. Lala Ganiyeva	
	<b>E-mail</b>	lganiyeva@yahoo.com	
	<b>Phone</b>		
	<b>Classroom/hours</b>	Bashir Safaroglu 122, Room	
<b>Prerequisites</b>	None		
<b>Language</b>	English		
<b>Compulsory/Elective</b>	Compulsory		
<b>Text books and course materials</b>	<p><b>Core Textbooks:</b></p> <p>[1 ] <i>Statistical Techniques in Business and Economics</i> by D.Lind, W. Marchal, S.Wathen, 15th edition, 2012</p> <p>[2] <i>Statistics for Managers Using Microsoft Excel</i> by D. Levine, D. Stephan, T.Krehbiel, M. Berenson, 5<sup>th</sup> edition, 2008</p>		
<b>Course outline</b>	This is an application-oriented course. Main topics are describing and organizing data, probability concepts, probability distributions, sampling and sampling distributions, confidence interval estimation, test of hypothesis, analysis of variance and decision-making.		
<b>Course objectives</b>	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.		
<b>Learning Outcomes</b>	<p>Having completed the course students will be able to:</p> <ul style="list-style-type: none"> <li>• Understand basic properties of data sets and their graphs</li> <li>• Describe basic traits of data and show the associations between categorical and quantitative variables</li> <li>• Understand and apply probability concepts into business areas</li> <li>• Construct confidence intervals and run significance tests about hypothesis</li> <li>• Work with basic applications and software of statistics(Excel)</li> </ul>		
<b>Teaching methods</b>	<b>Case analysis</b>		X
	<b>Group discussion</b>		X
	<b>Lab</b>		
	<b>Lecture</b>		X
	<b>Course paper(Project)</b>		
	<b>Problem Solving</b>		X
	<b>Others</b>		
<b>Evaluation Criteria</b>	<b>Methods</b>	<b>Date/deadlines</b>	<b>Percentage (%)</b>
	<b>Midterm Exam</b>	<b>6.11.2019</b>	30
	<b>Activity</b>		5
	<b>Attendance</b>		5
	<b>Quizzes (4 quizzes, 5 points each)</b>	<b>9.10.2019</b> <b>30.10.2019</b> <b>27.11.2019</b> <b>18.12.2019</b>	20
	<b>Final Exam</b>	<b>To be announced</b>	35
	<b>Other (Case analysis)</b>		5
	<b>Total</b>		100
<b>Policies</b>	<p><b>Attendance/Activity.</b> Because of the once-a-week course format, students are expected to attend all sessions. Failure to attend will lead to the deduction of the points from the student grade. If you have an absence, take responsibility for making up assignments and for obtaining missed lecture information.</p> <p>Activity is important for doing well in the course. You'll be graded for your active engagement with the material and your peers.</p> <p>The attendance and participation will account for 10 % of the total course grade.</p> <p><b>Class preparation.</b> Students are responsible for: 1) reading the assigned materials; 2) taking the initiative to ask questions that promote understanding of the academic subject; 3)</p>		

	<p>communicating regularly with the instructor, especially in matters related to class assignments.</p> <p><b>Quizzes/Case analysis.</b> The structure and format of the quizzes may include multiple choice and open-ended questions. All quizzes have equal weight. Makeup quizzes are permitted in extreme cases only. Analysis of the assigned case will be conducted by each student. Quizzes and case analysis will account for 25 percent of the final grade.</p> <p><b>Cheating/Plagiarism.</b> 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>
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<b>Tentative Schedule</b>			
<b>Week</b>	<b>Date (tentative)</b>	<b>Topics</b>	<b>Textbook/Assignments</b>
1	<b>18.09.2019</b>	Introduction. Basic Concepts. Describing data	[1] Ch.1, 2, [2] Ch. 1
2	<b>25.09.2019</b>	Numerical descriptive measures	[1] Ch. 3, [2] Ch. 3
3	<b>2.10.2019</b>	Displaying and exploring data	[1] Ch. 4, [2] Ch. 2
4	<b>9.10.2019</b>	Probability concepts. <b>Quiz #1</b>	[1] Ch. 5, [2] Ch. 4
5	<b>16.10.2019</b>	Discrete probability distributions	[1] Ch. 6, [2] Ch. 5
6	<b>23.10.2019</b>	The Normal Distribution and other continuous distributions	[1] Ch. 7, [2] Ch. 6
7	<b>30.10.2019</b>	Sampling and types of sampling methods. <b>Quiz #2</b>	[1] Ch. 8, [2] Ch. 7
8	<b>6.11.2019</b>	<b>Mid-term Exam.</b> Sampling distributions. The Central Limit Theorem	[1] Ch. 8, [2] Ch. 7
9	<b>13.11.2019</b>	Confidence interval estimation	[1] Ch. 9, [2] Ch. 8
10	<b>20.11.2019</b>	Fundamentals of Hypothesis Testing: One sample test	[1] Ch. 10, [2] Ch. 9
11	<b>27.11.2019</b>	Two-sample tests. <b>Quiz #3</b>	[1] Ch.11
12	<b>4.12.2019</b>	Analysis of a variance	[1] Ch. 12
13	<b>11.12.2019</b>	Linear regression and correlation	[1] Ch. 13, [2] Ch. 10
14	<b>18.12.2019</b>	Multiple regression analysis. <b>Quiz #4</b>	[1] Ch. 14, [2] Ch. 11
15	<b>25.12.2019</b>	Multiple regression analysis (contd.)	[1] Ch. 14, [2] Ch. 11
<b>Final exam</b>			