OSTIM TECHNICAL UNIVERSITY FACULTY OF ECONOMICS AND ADMINISTRATIVE SCIENCES INTERNATIONAL TRADE AND FINANCE DEPARTMENT COURSE SYLLABUS FORM 2022-2023 SPRING

BUS 203 Business Statistics											
Course Name	Course Code	Period	Hours	Application	Laboratory	Credit	ECTS				
Business Statistics	BUS203	4	3	1	0	3	5				

Language of Instruction	English
Course Status	Compulsory
Course Level	Bachelor
Learning and Teaching Techniques of the Course	Lecture, Theoretical teaching, Question- Answer, Practical Problem Solving
Class Time/Classroom	
Instructor	
Office	
E-mail	
Office Hours	
Teaching Assistants	-

Course Objective

The aim of this course is to understand the importance of basic concepts of business statistics. In this course, students will have better understanding of basic statistical techniques and data analysis.

Learning Outcomes

The students who become successful in this course will be able;

1. To understand the basic concepts of business statistics.

2. To explore the usage areas of statistics and data in business life.

3. To understand how statistics is used in order to compare and solve the problems in different areas (especially in business).

4. To have knowledge on subjects such as descriptive relationships for the data, probability theory, discrete and continuous variables and their distributions.

5. To have knowledge on subjects such as sampling theory and distributions, confidence intervals and hypothesis testing, regression.

Course Outline

Descriptive relationships and statistics, describing the data, introduction to probability theory, discrete and continuous random variables, the normal distribution, central limit theorem, properties of point estimators, confidence interval estimation for one population and two populations, hypothesis testing for single population and two populations, simple regression, introduction to multiple regression and analysis of variance.

	Weekly Topics and Related Preparation Studies								
Weeks	Topics	Preparation Studies							
1	Introduction to Statistics	Introduction to Statistics and Some Basic Terms							
2	Describing Data: Graphical (Newbold, Carlson & Thorne Chap.1)	Graphs to Describe Categorical Variables Graphs to Describe Time-Series Data Graphs to Describe Numerical Variables							
3	Describing Data: Numerical (Newbold, Carlson & Thorne Chap.2)	Measures of Central Tendency and Location Measures of Variability Weighted Mean and Measures of Grouped Data							
4	Probability-I (Newbold, Carlson & Thorne Chap.3)	Random Experiment, Outcomes, and Events Probability and Its Postulates Probability Rules							
5	Probability-II (Newbold, Carlson & Thorne Chap.3)	Bivariate Probabilities Bayes' Theorem							

6	Discrete Random Variables and Probability Distributions (Newbold, Carlson & Thorne Chap.4)	Random Variables Probability Distributions for Discrete Random Variables Some distributions
7	Continuous Random Variables and Probability Distributions (Newbold, Carlson & Thorne Chap.5)	Continuous Random Variables The Normal Distribution Jointly Distributed Continuous Random Variables
8	MIDT	ERM EXAM
9	Sampling and Sampling Distributions (Newbold, Carlson & Thorne Chap.6)	Sampling from a Population Central Limit Theorem
10	Estimation: Single Population (Newbold, Carlson & Thorne Chap.7)	Properties of Point Estimators Confidence Interval Estimations for Different Data Types
11	Estimation: Single Population / Two Populations (Newbold, Carlson & Thorne Chap.7-8)	Confidence Interval Estimations for Different Data Types
12	Hypothesis Testing: Single Population (Newbold, Carlson & Thorne Chap.9)	Concepts of Hypothesis Testing Hypothesis Testing for Different Data Types
13	Hypothesis Testing: Single Population / Two Populations (Newbold, Carlson & Thorne Chap.9-10)	Hypothesis Testing for Different Data Types
14	Simple Regression (Newbold, Carlson & Thorne Chap.11)	Linear Regression Model Least Squares Coefficient Estimators
15	Introduction to Multiple Regression / ANOVA (Newbold, Carlson & Thorne Chap.12- 15)	The Multiple Regression Model Comparison of Several Population Means One-Way Analysis of Variance
16	FIN	IAL EXAM

Textbook(s)/References/Materials:

Textbook:

 Newbold, P., Carlson, W.L., and Thorne, B. M., Statistics for Business and Economics, 8th Edition, Pearson, 2013.

Assessment							
Studies	Number	Contribution margin (%)					
Attendance							
Lab							
Class participation and performance							
Field Study							
Course-Specific Internship (if any)							
Quizzes / Studio / Critical							
Homework							
Presentation							
Projects							
Report							
Seminar							
Midterm Exam/Midterm Jury	1	40					
General Exam / Final Jury	1	60					
Total		100					
Success Grade Contribution of Semester		40					
Studies							
Success Grade Contribution of End of Term		60					
Total		100					

ECTS / Workload Table								
Activities	Number	Duration (Hours)	Total Workload					
Course hours (Including the exam week): 16 x total course hours)	16	3	48					
Laboratory								
Application								
Course-Specific Internship (if any)								
Field Study								
Study Time Out of Class	24	1	24					
Presentation / Seminar Preparation								
Projects								
Reports								
Homework								
Quizzes / Studio Review								
Preparation Time for Midterm Exams / Midterm Jury	1	24	24					
Preparation Period 4ort he Final Exam / General Jury	1	30	30					
Total Workload	(126/2	25 = 5.04)	126					
ECTS		5						

	Course' Contribution Level to Learning Outcomes								
Nu	Learning Outcomes		Contribution Level						
nu	Learning Outcomes	1	2	3	4	5			
L01	To understand the basic concepts of business statistics.					х			
LO2	To explore the usage areas of statistics and data in business life.					Х			
LO3	To understand how statistics is used in order to compare and solve the problems in different areas (especially in business).					x			
LO4	To have knowledge on subjects such as descriptive relationships for the data, probability theory, discrete and continuous variables and their distributions.					x			
L05	To have knowledge on subjects such as sampling theory and distributions, confidence intervals and hypothesis testing, regression.					х			

	Relationship Between Course Learning Outcomes and Program Competencies (International Trade and Finance)								
		Learning Outcomes					Total		
Nu	Program Competencies	L01	LO2	LO3	LO4	L05	Effect (1-5)		
1	Have advanced theoretical and up-to-date knowledge in discipline-specific areas such as international trade, finance, logistics, and general business and international business such as economics, marketing, management, accounting.	Х	x	X			3		
2	Evaluate, follow, absorb and transfer new information in the field of international trade.						-		
3	Conduct market research, carry out projects and develop strategies for a business to open up to international markets.	х	х	Х			3		
4	Use knowledge of national and international trade law and legislation in the management of international commercial operation processes.						-		
5	Work independently and within an organization, using the knowledge and skills acquired in the field and adopting continuous learning.		x	X	х	Х	5		
6	Have the ability to apply her theoretical knowledge in real life, with the experience she will gain through practice in departments such as marketing, accounting, foreign trade, finance, logistics.	Х	X	X	Х	Х	5		
7	Have the theoretical knowledge to carry out export, import, customs clearance, logistics, taxation and other international trade activities		x		х		2		

	within the scope of global and regional commercial and economic organizations.						
8	Can develop a business idea, commercialize the business idea, and design and manage their own venture using their entrepreneurial knowledge.	X	X	X	X	Х	5
9	Using strategic, critical, innovative and analytical thinking skills, actively take part in the decision-making processes of the enterprise in the field of foreign trade and finance.	X	X	X	X	Х	5
10	Act in accordance with ethical values, respectful to the environment, social and universal values in all activities it will carry out in its field.						-
11	Have the skills to follow up-to-date information at national and international level, to gather information about field, and to communicate with international institutions / organizations using her/him knowledge of English and a second foreign language of her choice.						-
12	Gain professional competencies to take charge in national and international businesses, public and private sector organizations						-
13	Can evaluate the problems and conflicts encountered in all areas related to international trade from different perspectives with a holistic approach and produce value-based solutions.			X	X		2
	Total Ef	fect					30

Policies and Procedures

Web page: https://www.ostimteknik.edu.tr/uluslararasi-ticaret-ve-finansman-bolumu-209/25

Exams: The exams aim at assessing various dimensions of learning: knowledge of concepts and theories and the ability to apply this knowledge to real world phenomenon, through analyzing the situation, distinguishing problems and by suggesting solutions.

The written exams can be of two types, i.e. open-ended questions, which can also be in the form of problems or multiple-choice questions.

Exams are composed of a final exam comprising 60% of the student's grade and a mid-term exam, with less weight.

The Department of Economics does not tolerate any act of academic dishonesty. Examinations are individual and must be completed without any outside assistance. Students who attempt to cheat during exams will receive a failing grade from that exam. The case could also be carried to the Dean's Office for additional disciplinary action.

Missed exams: Any student missing an exam needs to bring an official medical report to be able to take a make-up exam.

Attendance: Attendance requirements are announced at the beginning of the term. Student are usually expected to attend at least 70% of the classes during each term.

Objections: If the student observes a material error in his/her grade, he/she has the right to place an objection to the Faculty or the Department. The claim is examined and the student is notified about its outcome.