

**NEAR EAST UNIVERSITY – COMMON COURSES COORDINATION UNIT**



Department of Mathematics  
Course Information Sheet & Course Outline  
2021-2022 Fall Semester

<b>Course Code</b> MTH261	<b>Course Name</b> Statistics 1		<b>Credit</b> 3	<b>ECTS</b> 6			
<b>Pre-requisite:</b> MTH172							
<b>Language:</b> Eng		<b>Course Type:</b> Face to Face		<b>Year:</b> 2020-21		<b>Semester:</b> Spring	
<b>Weekly Hours</b> 3	<b>Class Hours</b>	<b>Laboratory</b>	<b>Practicum</b>	<b>Learning Sessions</b>			
	3	0	0	<b>PS</b>	<b>C</b>	<b>R</b>	<b>T</b>
<b>Course Lecturer/Coordinator:</b> Assoc.Prof.Dr. Nuriye Sancar			<b>Office hours:</b> Mon., Tuesday /15:00-16:00;				
<b>E-mail address</b> nuriye.sancar@neu.edu.tr			Thursday: 10:00-11:00				
			Wed: 12:00-13:00(online)				
<b>Learning Outcomes</b>	<p>After the completion of this course, the student will be able to</p> <ol style="list-style-type: none"> <li>1. Organize and present data in a tabular as well as graphical format;</li> <li>2. Ascertain the appropriate use of and can calculate various measures of central tendency and dispersion;</li> <li>3. Describe data using measures of central tendency and dispersion as well as coefficients of skewness and/or kurtosis;</li> <li>4. Calculate and distinguish between various types of probability for one or more events;</li> <li>5. Evaluate probabilistic statements for discrete as well as continuous probability distributions;</li> <li>6. Ascertain the appropriate use of various discrete as well as continuous probability distributions;</li> </ol> <p align="center">-</p>						
<b>Course Description</b>	An introductory course in the business and economic application of descriptive statistics and probability. The meaning and role of statistics in business and economics, frequency distributions, graphical presentations, measures of central tendency and dispersion, probability, discrete and continuous probability distributions.						
<b>Course Objectives</b>	The objective of this course is to provide an understanding for the undergraduate business student on statistical concepts to include measurements of location & dispersion, probability, probability distributions,						
<b>Textbooks and/or References</b>	1	Prem S. Mann. Introductory Statistics. Wiley, 9th ed.					
	2						
	3						
	4						
	5						
	6						
<b>Course Content</b>	Descriptive ,Statistics and Probability						
<b>Methods and Techniques Used in the Course</b>							

WEEKLY OUTLINE					
Week	Date	Topic	Activities	Reference	
1	22 – 26 Feb	Introduction to the Course			
2	1 – 5 Mar	Statistics and Types of Statistics			
3	8 – 12 Mar	Organizing and Graphing Quantitative and Qualitative data			
4	15 – 19 Mar	Cumulative Frequency Distribution			
5	22 – 26 Mar	Measures of Central Tendency for Ungrouped Data and Measures of Dispersion for Ungrouped Data			
6	29 Mar – 2 Apr	Measures of Central Tendency and dispersion for grouped Data			
7	5 – 9 Apr	Introduction to probability			
8	12 – 16 Apr	Review for midterm exam			
9	19 – 22 April	Midterm Exam			
10	26 – 30 Apr	Marginal Probability, Conditional Probability, and Related probability Concepts			
11	3 – 7 May	Discrete Random Variables and Their Probability Distribution, Mean and Standard Deviation of a Discrete random variable			
12	10 – 12 May	Special Discrete Probability Distributions			
13	17 – 21 May	Special Discrete Probability Distributions (continuation)			
14	24 – 28 May	Continuous Random Variables and the Normal Distribution			
15	31 May – 4 Jun	Review for final exam			
16	7 – 16 Jun	Final Exam Week			
<b>Attendance:</b> Minimum 70 %					
<b>Assessment Breakdown</b>	<b>Type</b>		<b>%</b>	<b>Reference/ Source</b>	
	1	Midterm exam	40		
	2	Final exam	60		
	3				
	4				
<b>Learning Program</b>					
<b>Educational Tool</b>	<b>Amount</b>	<b>Student Work Load (Hours)</b>	<b>Educational Tool</b>	<b>Amount</b>	<b>Student Work Load(Hours)</b>

				<b>Total</b>	
			<b>Recommended ECTS Credit (Total Hours / 30):</b>		<b>180/30 = ~6</b>