NEAR EAST UNIVERSITY - FACULTY OF ART AND SCIENCE

Department of Mathematics

Course Information Sheet & Course Outline

2021-2022 Fall Semester

Course Code	Course Name	Credit	ECTS
MTH172	Mathematics for Business and Economy II	3	6

Pre-requisite: MTH171

Language: ENGLISH	Course Type: COMPULSORY	Year:2021-2022	Semester: FALL

Weekly Hours	Class Hours	Laboratory	Practicum	Learning Sessions			
				PS	C	R	T
	3	-	-	X	X	X	X

Course Lecturer/ Coordinator	Assist. Prof. Dr. Meryem GÜLYAZ CUMHUR	
	E-mail address	meryem.cumhur@neu.edu.tr
Learning Outcomes	After the completion of this course, the student will be able to solve maths problems for business and economics. -	
Course Description	Learning essential mathematics topics for maths-2 for business and economics calculations.	
Course Objectives	Matrices, Limits and Continuity, Derivatives and Integration.	
Textbooks and/or References	1	Introductory Mathematical Analysis for Business, Economics and the Life and Social Sciences, 11th edition; Ernest F. Haeussler, Richard S. Paul, R. J. Paul, Pearson Education.
	2	
	3	
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Course Content	Matrices, Limits and Continuity, Derivatives and Integration	
Methods and Techniques Used in the Course	2 hours face to face + 1 hour online lesson	

WEEKLY OUTLINE

Week	Date	Topic	Activities	Reference
1	20-24 Sep	**Introduction to the Course**		
2	27 Sep-1 Oct	**1**	Matrices, Matrix Algebra, and Special Types of Matrices	
3	4-8 Oct	1	Transpose of a Matrix, Determinant, and Inverse	
4	11-15 Oct	1	Systems of Linear Equations	
5	18-22 Oct	1-2	Problem Solving	
6	25-29 Oct	1	Cramer's Rule and Row Echelon Form	
7	1-5 Nov	2	Limits and Continuity	
8	8-12 Nov		**Midterm Exam Week**	
9	15-19 Nov	3	Derivatives	
10	22-26 Nov	3	Chain Rule, Product Rule and Quotient Rule	
11	20 Nov-3 Dec	4	Integration	
12	6-10 Dec	4	Applications	
13	13-17 Dec	3-4	Problem Solving	
14	20-24 Dec	4	Finding the curve area by using Definite Integration Method	
15	27-30 Dec		**Revision**	
16	3-14 Jan	**FINAL EXAM WEEK**		

Attendance: Minimum 70 %

Assessment Breakdown		Type	%	Reference/ Source	Relevant Competencies
	1	midterm	40	Class notes	40
	2	final	60	Class notes	60
	3				
	4				
			100		100

Learning Program

Educational Tool	Amount	Student Work Load (Hours)	Educational Tool	Amount	Student Work Load(Hours)
Lessons Hour	16*4	64hrs	Homework	1	5hrs
Quiz	3*2	6hrs	Mid Term	1*14	14hrs
Final	1*30	30hrs	Self Study	14*4	56

			Total		
		Recommended ECTS Credit (Total Hours / 30):180		**180/30 = ~ 6**	