

TOROS ÜNİVERSİTESİ

Faculty Of Economic, Administrative And Social Sciences
Business Administration (English)

Course Information

MATHEMATICS II

Code	Semester	Theoretical	Practice	National Credit	ECTS Credit
		Hour / Week			
MAT104	Spring	3	0	3	5

Prerequisites and co-requisites	
Language of instruction	English
Type	Required
Level of Course	Bachelor's
Lecturer	Dr. Öğr. Üye Ayhan DEMİRCİ
Mode of Delivery	Face to Face
Suggested Subject	
Professional practise (internship)	None
Objectives of the Course	The student is able to understand and use mathematical concepts, develop functional thinking skills and gain the habit of using this ability in daily life and business life.
Contents of the Course	Functions, induction and deduction, arrays, trigonometry, exponential and logarithmic functions, limits, derivatives and applications, integrals and applications

Learning Outcomes of Course

#	Learning Outcomes
1	Analysing function concept and developing functional thinking ability
2	Use sum and multiplication symbols
3	Analysing and apply limit concept
4	Analysing and use the concept of derivative and its applications
5	Analysing and applying the concept of integral

Course Syllabus

#	Subjects	Teaching Methods and Technics
1	Function and function types	Face-to-face identification and example
2	Linear, odd and even, absolute value, integral, constant functions.	Face-to-face identification and example
3	Functions in functions (addition, subtraction, multiplication, division and composition)	Face-to-face identification and example
4	The inverse of a function	Face-to-face identification and example
5	Polynomials	Face-to-face identification and example
6	Equations and functions in second order, parabola.	Face-to-face identification and example
7	Trigonometric functions and properties	Face-to-face identification and example
8	Exponential and logarithmic functions	Face-to-face identification and example
9	Midterm exam	Writin exam
10	Sum and deduction, sum and multiplication symbols and their properties	Face-to-face identification and example
11	Limit and continuity	Face-to-face identification and example

12	Derivative and applications	Face-to-face identification and example
13	Derivative and applications	Face-to-face identification and example
14	Integral and applications	Face-to-face identification and example
15	Integral and applications	Face-to-face identification and example
16	Final Exam	Writtin exam

Course Syllabus

#	Material / Resources	Information About Resources	Reference / Recommended Resources
1	CALCULUS AND ANALAYTINC GEOMETRY	Fisher and Ziebur	
2	Calculus	Sherman K. Stein	
3	Matematik I-II	Yusuf GÜL	

Method of Assessment

#	Weight	Work Type	Work Title
1	40%	Mid-Term Exam	Mid-Term Exam
2	60%	Final Exam	Final Exam

Relationship between Learning Outcomes of Course and Program Outcomes

#	Learning Outcomes	Program Outcomes	Method of Assessment
1	Analysing function concept and developing functional thinking ability	1,4,6,8,9,10	1,2
2	Use sum and multiplication symbols	1,4,6,8,12	1,2
3	Analysing and apply limit concept	1,4,6,8	1,2
4	Analysing and use the concept of derivative and its applications	1,4,6,8	1,2
5	Analysing and applying the concept of integral	1,4,6,8	1,2

PS. The numbers, which are shown in the column Method of Assessment, presents the methods shown in the previous table, titled as Method of Assessment.

Work Load Details

#	Type of Work	Quantity	Time (Hour)	Work Load
1	Course Duration	14	3	42
2	Course Duration Except Class (Preliminary Study, Enhancement)	14	2	28
3	Presentation and Seminar Preparation	0	0	0
4	Web Research, Library and Archival Work	0	0	0
5	Document/Information Listing	0	0	0
6	Workshop	0	0	0
7	Preparation for Midterm Exam	1	28	28
8	Midterm Exam	1	2	2
9	Quiz	0	0	0
10	Homework	0	0	0
11	Midterm Project	0	0	0
12	Midterm Exercise	0	0	0
13	Final Project	0	0	0
14	Final Exercise	0	0	0
15	Preparation for Final Exam	1	47	47
16	Final Exam	1	3	3

