TOROS ÜNİVERSİTESİ

Faculty Of Economıc, Admınıstratıve And Socıal Scıences
Busıness Admınıstratıon (Englısh)

Course Information

MATHEMATICS I					
Code	**Semester**	**Theoretical**	**Practice**	**National Credit**	**ECTS Credit**
		Hour / Week			
MAT103	Fall	3	0	3	5

Prerequisites and co-requisites	
Language of instruction	English
Type	Required
Level of Course	Bachelor's
Lecturer	Assist.Prof.Dr. Ayhan DEMİRCİ
Mode of Delivery	Face to Face
Suggested Subject	
Professional practise (internship)	None
Objectives of the Course	To recognize and use basic mathematical concepts, to recognize numerical systems, to know numerical numbers in numerical system, to improve numerical sets and to be able to perform operations in these sets, to recognize and solve equations systems, to understand the concept of sets, to understand functions of cartesian products and functions, To acquire the ability to learn and apply their varieties and properties.
Contents of the Course	Number systems, numbers in the decimal system, number sets and operations in these sets, equations and inequalities, absolute value concept and properties, identity and its solutions to problems, sets and solutions, sets, Cartesian products, relations and functions.

Learning Outcomes of Course

#	Learning Outcomes
1	Recognition of number systems
2	Number system used in everyday life and recognition of number sets in this system
3	To be able to perform operations on the set of natural numbers
4	To be able to understand the exact numbers, rational numbers and to understand the properties of these ranks
5	To understand the systems of equations and to understand the methods of solution
6	Comprehend inequalities and make solutions
7	Solve problems (number, age, speed, karve damage, work, ...)
8	Understand the concepts of set, cartesian product and relation

Course Syllabus

#	Subjects	Teaching Methods and Technics
1	Number systems, decimal number system and used figures	Face to face exposition
2	Operations on integers and rational numbers	Face to face exposition
3	Transactions on real numbers	Face to face exposition
4	Transactions on real numbers	Face to face exposition
5	Equation systems, inequalities and solutions	Face to face exposition
6	Problems and solutions	Face to face exposition

7	1'st midterm	classics,writtin examination
8	Sets, Relation and Function Concept	Face to face exposition
9	Function properties and types	Face to face exposition
10	Trigonometric functions	Face to face exposition
11	Trigonometric functions	Face to face exposition
12	Logarithmic functions	Face to face exposition
13	Logarithmic and exponential functions	Face to face exposition
14	Inverse functions	Face to face exposition
15		
16	Final Exam	classics,writtin examination

Course Syllabus

#	Material / Resources	Information About Resources	Reference / Recommended Resources
1	matematik-1 kitabı	Yusuf GÜL	Toros Üniversitesi yayınları
2	Genel matematik	Mustafa BALCI	Sürat yayınları

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	Recognition of number systems	2,3	
2	Number system used in everyday life and recognition of number sets in this system	1,2,3	
3	To be able to perform operations on the set of natural numbers	1,2,3	
4	To be able to understand the exact numbers, rational numbers and to understand the properties of these ranks	1,2,3,6	
5	To understand the systems of equations and to understand the methods of solution	1,2,3,5,6	
6	Comprehend inequalities and make solutions	1,2,3,4,6	
7	Solve problems (number, age, speed, karve damage, work, ...)	1,2,3,5,6,7,8,9	
8	Understand the concepts of set, cartesian product and relation	1,2,3,4,5,6,7,8,9,10	

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	3	42
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	0	0	0

8	Midterm Exam	0	0	0
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	15	15
16	Final Exam	1	1	1
				100