



## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title	Introduction to Mathematics I								
Course Code	MAT181	Course Level			Short Cycle (Associate's Degree)				
ECTS Credit	4	Workload	106 (Hours)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course	The aim of this course is to teach students the necessary information on their works and to gain the ability of using his/her knowledge								
Course Content	Numbers, type of numbers, equations, inequality, absolute value, exponential numbers and root of numbers, ratio and proportion and problems of writing equation								
Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Explanation (Presentation), Case Study, Individual Study, Problem Solving								
Name of Lecturer(s)	Ins. Erhan KOCA, Ins. Gamze BAKIR GÜVEN, Ins. Mehmet Serdar GÜR, Ins. Merve MUTİ İSTEK, Ins. Muhittin TURAN, Ins. Neslihan BİLİNMEZ, Lec. Ali BÜYÜKMERT, Lec. Ayşenur ÖREN, Lec. Hüseyin Nail AKGÜL, Lec. Mesut EKMEKÇİ								

### Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	60

### Recommended or Required Reading

1	MYO Öğrencileri İçin Temel Matematik, Prof. Dr. Mustafa BALCI
2	Akademi yayınları "KPSS genel yetenek ilköğretim matematik"

Week	Weekly Detailed Course Contents & Teaching Methods	
1	Theoretical	Numbers
2	Theoretical	Systems of Numbers
3	Theoretical	Division and divisibility
4	Theoretical	Prime factorization, GCD, LCM
5	Theoretical	Rational Numbers
6	Theoretical	Decimal Numbers
7	Theoretical	First Degree Equations
8	Theoretical	Basic Inequalities (Midterm)
9	Theoretical	Absolute Value
10	Theoretical	Exponential Numbers
11	Theoretical	Root of Numbers
12	Theoretical	Factorizations
13	Theoretical	Ratio and Proportion
14	Theoretical	Problems of Ratio and Proportion

### Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	3	2	70
Midterm Examination	1	12	2	14
Final Examination	1	20	2	22
Total Workload (Hours)				106
[Total Workload (Hours) / 25*] = ECTS				4

\*25 hour workload is accepted as 1 ECTS

### Learning Outcomes

1	To understand the definition and basic properties of numbers
2	To understand the type of numbers and characteristic of number operations
3	To understand and use of exponential and root of numbers



4	To solve the problems of ratio and proportion
5	To be able to gain the skill of interpreting some interrelations among these concepts

