



## 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 ( <i>Hours</i> )	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. Ali BÜYÜKMERT, Ins. Cemal GÖVEN, Ins. Erhan KOCA, Ins. Gamze BAKIR GÜVEN, Ins. Gözde ÇETİN, Ins. Muhittin TURAN, Ins. Neslihan BİLİNMEZ, Lec. Durcan Özgün SARIOĞLU, Lec. Kübra GENÇDAĞ SENSOY, Lec. Selin YALÇIN							

### Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	70

### 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	
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
9	Intermediate Exam	MIDTERM EXAM
10	Theoretical	Absolute Value
11	Theoretical	Exponential Numbers
12	Theoretical	Root of Numbers
13	Theoretical	Factorizations
14	Theoretical	Ratio and Proportion
15	Theoretical	Problems of Ratio and Proportion
16	Final Exam	FINAL EXAM

### 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
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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

**Programme Outcomes (Computer - Aided Design and Animation)**

1	Using the basic knowledge and skills acquired in the field, interpret and evaluate data, identify problems, to analyze, to have the ability to develop evidence-based solutions.
2	To select and effectively use modern techniques that are for applications relevant to the field
3	Gaining the application skill by examining the relevant processes in industrial and service sector
4	To find solution when encounters unforeseen situations in the field, to gain the ability to be able to take responsibility in a team or make individual research.
5	To gain the awareness of the need for lifelong learning, continuous self-renewal monitoring and awareness of developments in science and technology
6	To gain the ability to use computer software and hardware required by the basic level of the field.
7	To be conscious about occupational safety, occupational health, environmental protection and quality.
8	Effective communication and follow the innovations in the field.
9	In mathematics, science and engineering directed to his/her field of basic theoretical and practical knowledge.
10	Having the planning skills related to Computer Aided Design and Animation program to meet the needs of the sector.
11	Gaining skills on technical drawing, computer-aided drafting, design using simulation programs in the field of making and using a variety of software systems and components to choose, to calculate the basic sizing, draw plans and projects.
12	Ability to use the methods and techniques of career planning and discussing the effects of character traits on career preferences.
13	Ability to plan a career in their own profession.

**Contribution of Learning Outcomes to Programme Outcomes 1:Very Low, 2:Low, 3:Medium, 4:High, 5:Very High**

	L1	L2	L3	L4	L5
P5	3	3	3	3	3

