



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
---	--



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 (Mechatronics)

1	TECHNICAL FOREIGN LANGUAGE
2	BASICS OF MECHATRONICS
3	TECHNICAL DRAWING
4	DOING BASIC MECHANIC PROSESES
5	CHOOSE THE MATERIALS
6	DOING MECHANICAL SYSTEM DESIGN
7	SET UP A HYDRAULIC OR PNEUMATIC SYSTEMS
8	DOING COMPUTER AIDED MECHANICAL DESIGN
9	USING FLEXIBLE PRODUCING SYSTEMS
10	USING COMPUTER AIDED MACHINE TOOLS
11	DOING ELECTRICAL AND ELECTRONICAL
12	SET UP ELECTRICAL AND ELECTRONICAL CIRCUITS
13	SET UP LOGICAL CIRCUITS
14	DOING COMPUTER AIDED ELECTRONICAL CIRCUITS DESIGN
15	SET UP ELECTRICAL MOTORS
16	SET UP MICROCONTROLLER CIRCUITS
17	SET UP CONTROL SYSTEMS
18	COMMUNICATE CONTROL SYSTEMS
19	DOING INDUSTRIAL ROBOTIC PROGRAMMING AND MAINTENANCE
20	WRITING COMPUTER PROGRAMME
21	Ability to use the methods and techniques of career planning and discussing the effects of character traits on career preferences.
22	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

	L5
P2	2

