AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title	Introduction to Mathematics II								
Course Code	MAT182		Couse 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	Sets, functions, first and second order equations, parabols, trigonometry, complex nımbers, logarithm, matrices and their applications in profession.								
Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Explanation (Presentation), Case Study, Individual Study, Problem Solving								
Name of Lecturer(s)	Ins. Gamze BAKIR GÜVEN, Ins. Muhittin TURAN, Ins. Neslihan BİLİNMEZ, Lec. Kübra GENÇDAĞ ŞENSOY								

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 ilkadım matematik”

Week	Weekly Detailed Course Contents	
1	Theoretical	Sets
2	Theoretical	Functions
3	Theoretical	Functions
4	Theoretical	First and second order equations
5	Theoretical	Birinci ve ikinci dereceden denklemler
6	Theoretical	Parabola
7	Theoretical	Trigonometric Functions
8	Theoretical	Trigonometric Functions
9	Theoretical	MIDTERM EXAM
10	Theoretical	Complex Numbers
11	Theoretical	Complex Numbers
12	Theoretical	Logarithm
13	Theoretical	Logarithm
14	Theoretical	Matrices
15	Theoretical	Matrices
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 write equations and to gain the ability of solving problems

2	To gain the information on the background of complex number
3	To gain the fundamental information about trigonometry
4	To gain the fundamental information about logarithm
5	To understand the concept of matrix and to use them

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 HYDRAULİC OR PNEUMATICSYSTEMS
8	DOING COMPUTER AIDED MECHANICAL DESİGN
9	USINGFLEXIBLE PRODUCING SYSTEMS
10	USINGCOMPUTER AIDEDMACHINE TOOLS
11	DOING ELECTRICAL AND ELECTRONICAL
12	SET UP ELECTRICAL AND ELECTRONICAL CIRCUITS
13	SET UP LOGICAL CIRCIUTS
14	DOING COMPUTER AIDED ELECTRONICAL CIRCUITSDESİGN
15	SET UP ELECTRICAL MOTORS
16	SET UP MICROCONTROLLER CIRCIUTS
17	SET UP CONTROL SYSTEMS
18	COMMUNICATE CONTROL SYSTEMS
19	DOING INDUSTRIAL ROBOTIC PROGRAMMINGAND 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*

	L1
P2	2