

### AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Applications of	f Mathematics	;						
Course Code		MKE190		Couse	Lev	el	Short Cycle (	Associate's De	egree)	
ECTS Credit	2	Workload	50 (Hours)	Theory	/	2	Practice	0	Laboratory	0
Objectives of	the Course	Mathematical (formulas, mo	competence, a dels, structure	applica s, grap	tion d hs, d	of thinking p liagrams) ar	atterns (logica e aimed to de	al and spatial the velop skills.	hinking) and pres	sentation
Course Conte	nt	Numbers, Alg	ebra, Problem	s, Logi	cal A	bility, Geom	etry			
Work Placeme	ent	N/A								
Planned Lear	ning Activities	and Teaching	Methods	Explar	natior	n (Presentat	ion), Demons	tration, Discus	sion, Problem Se	olving
Name of Lect	urer(s)	Assoc. Prof. N	lurat ÜNVER	Dİ						

### **Assessment Methods and Criteria**

Method	Qu	antity	Percentage	(%)
Midterm Examination		1	40	
Final Examination		1	60	

# **Recommended or Required Reading**

1 Applications of Mathematics Lecture Notes

Week	Weekly Detailed Cou	rse Contents
1	Theoretical	Basic Concepts (Numbers), Rational Numbers and Decimal Fractions, Number Systems and Step Concept
2	Theoretical	Prime Factors and Exact Divisor Number, Divide and Divide Rules
3	Theoretical	Factorial, Obeb and Okek
4	Theoretical	Equation Solving
5	Theoretical	Simple Inequalities and Sorting, Absolute Value
6	Theoretical	Exponential Numbers, Square Root Numbers, Factorization and Identities
7	Theoretical	Ratio Proportion
8	Theoretical	Number, Fraction, Page, Hour, Age, Percentage, Profit and Loss, Interest, Mixture, Speed and Movement, Worker and Pool Problems (MIDTERM)
9	Theoretical	Example Problem Solving
10	Theoretical	Sets, Functions, Modular Arithmetic
11	Theoretical	Permutation, Combination, Possibility, Digital Logic
12	Theoretical	Geometric Concepts, Line Angles, Polygons and Rectangles
13	Theoretical	Circle, Analytical Geometry, Solid Bodies
14	Theoretical	Example Problem Solving

# **Workload Calculation**

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Assignment	14	0	1	14
Midterm Examination	1	3	1	4
Final Examination	1	3	1	4
		Т	otal Workload (Hours)	50
		[Total Workload	(Hours) / 25*] = <b>ECTS</b>	2
*25 hour workload is accepted as 1 ECTS				

# Learn Intertheory and applications of numbers. 1 Learn the theory and applications of algebra. 2 Learn the theory and applications of algebra. 3 Learn the theory and applications of problems.



4	Learn the theory and applications of logical ability.
5	Learn the theory and applications of geometry.
Progra	amme Outcomes (Private Security and Protection)
1	Know the powers of private security
2	Know defense and attack techniques
3	To understand the security measures
4	Establishing Organizational Communication
5	To apply the basic principles of first aid
6	To be able to make threat assessment and risk managemen
7	Learn what the body language is and what needs to be considered to ensure effective communication.
8	Weapon information
9	Knows Environmental Health Management in Disasters
10	Knows the elements of crime
11	Prepare a security plan
12	To have necessary knowledge in the field of criminology
13	To be able to determine employee and employer relations
14	To have information about the types of terrorist attacks and the signs of the attacks
15	Evaluate new approaches in security studies
16	Show effective interventions in social activities
17	Search and rescue in case of emergency, conducting emergency studies, can manage the organization
18	Explain the basic elements of health and the factors affecting it.
19	Know the basic principles of survival

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

	L1
P1	1
P2	1
P3	1
P4	1
P5	1
P6	1
P7	1
P8	1
P9	1
P10	1
P11	1
P12	1
P13	1
P14	1
P15	1
P16	1
P17	1
P18	1
P19	1

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