



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Applications of Mathematics							
Course Code		MKE190		Course Level		Short Cycle (Associate's Degree)			
ECTS Credit	2	Workload	50 (Hours)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course		Mathematical competence, application of thinking patterns (logical and spatial thinking) and presentation (formulas, models, structures, graphs, diagrams) are aimed to develop skills.							
Course Content		Numbers, Algebra, Problems, Logical Ability, Geometry							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Demonstration, Discussion, Problem Solving					
Name of Lecturer(s)		Assoc. Prof. Murat ÜNVERDİ							

Assessment Methods and Criteria

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

Recommended or Required Reading

1	Applications of Mathematics Lecture Notes
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Week	Weekly Detailed Course 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
9	Intermediate Exam	Mid-term Exam
10	Theoretical	Sets, Functions
11	Theoretical	Modular Arithmetic
12	Theoretical	Permutation, Combination, Possibility
13	Theoretical	Digital Logic
14	Theoretical	Geometric Concepts, Line Angles, Polygons and Rectangles
15	Theoretical	Circle, Analytical Geometry, Solid Bodies
16	Final Exam	Final Exam

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
Total Workload (Hours)				50
[Total Workload (Hours) / 25*] = ECTS				2
*25 hour workload is accepted as 1 ECTS				

Learning Outcomes

1	Learn the theory and applications of numbers.
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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.

Programme Outcomes (Office Management and Executive Assistantship)

1	The ability of using information and communication tools and the other vocational tools and techniques.
2	The ability of planning and applying vocational process.
3	The ability of communicating in foreign language.
4	The ability of vocational self-confidence.
5	The ability of entrepreneurship.
6	The ability of using theoretical field information at the practice.
7	The ability of managing a process that provides the needs.
8	The ability of working in groups including interdisciplinary.
9	The ability of defining problems and solving them in vocational practice.
10	The awareness of vocational ethic and responsibility.
11	The awareness of necessity of life-long learning and the ability to make come true this.
12	The ability of having information about sectoral problems.
13	The ability of understanding vocational legal regulation and applying.
14	The ability of having an effective communication.
15	Social, cultural and social responsibilities of the grip, and the ability to apply to adopt.

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

	L1	L2	L3	L4	L5
P1	3	4	5	4	3
P2	3	4	4	4	4
P3	3	3	5	4	3
P4	3	4	4	3	4
P5	4	4	3	4	3
P6	4	3	5	3	4
P7	3	4	3	4	4
P8	3	3	5	3	4
P9	3	3	5	4	4
P10	3	4	3	3	3
P11	4	3	5	4	3
P12	3	4	3	3	3
P13	4	3	5	4	4
P14	3	3	4	3	5
P15	4	4	4	4	5

