AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title		Applications of Mathematics					
Course Code		MKE190		Couse 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

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.

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 *(Business Administration Management)*

1	To be able to use the theoretical knowledge in business management in working life
2	Having the ability to use the management functions of the business and following new management techniques
3	To be able to fulfill the legal responsibilities of the operator, to have the knowledge and equipment to follow and implement the relevant legislation
4	To be able to use the information and communication technologies at the level required by the field, to adapt the new technologies to the operating systems by following the technological changes
5	To identify, analyze and bring solutions to problems encountered in professional practice
6	Managing business financing; bringing a solution to the financial problems by making the financial analysis of the business
7	Gaining the ability to manage the business by ensuring that the human resources operate and develop efficiently in line with business objectives
8	To be able to comprehend the basic functions of production and marketing as a whole and to be able to apply new production and marketing techniques
9	To be able to perform cost calculations in enterprises, to hold accounting records, to prepare financial statements and to be able to interpret
10	Having professional ethical values ??sought in the qualified personnel required by the market, and able to use Turkish language effectively in written and oral communication; To be able to have professional foreign language knowledge that can make international correspondences related to the field
11	Having analytical analysis, interpretation, evaluation and solution skills of field related information
12	To be able to follow and apply current and economic developments in national and international framework related to his / her 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
P1	1	1	1	1	1
P2	1	1	1	1	1
P3	1	1	1	1	1
P4	1	1	1	1	1
P5	1	1	1	1	1
P6	1	1	1	1	1
P7	1	1	1	1	1
P8	1	1	1	1	1
P9	1	1	1	1	1
P10	1	1	1	1	1
P11	1	1	1	1	1
P12	1	1	1	1	1