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 *(Fashion Design)*

1	Be able to use the theoretical and practical knowledge related to fashion design
2	Fashion marketing and promotional activities should be carried out in matters related to fashion design
3	Must be able to collect data for research, prepare and present research report, prepare project
4	Designing personal clothing to meet the expectations of the sector and preparing the creations on the computer
5	Should be able to recognize the fabric surfaces, select auxiliary materials, control materials.
6	It should be able to carry out steps of mold preparation, spreading, laying plan preparation.
7	Must be able to use the necessary equipment, equipment and machines for the applications related to fashion design, and make adjustments and maintenance.
8	Must be able to use computerized mold and design programs in the field of fashion design.
9	Must have the ability to manage and organize business by creating the idea of establishing a business in the field.
10	Can create a model she designs in her mind by applying the technical drawings of the clothes and fashion formal training.
11	Basic sewing techniques should be able to realize the production stages of women's, men's and children's wear.

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

	L1	L2	L3	L4	L5
P3	1	1	1	1	1