



## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Basic Mathematics							
Course Code		ÜKK183		Course Level		Short Cycle (Associate's Degree)			
ECTS Credit	2	Workload	50 (Hours)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course		To learn the basic concepts of mathematics and to gain the ability to do algebraic operations related to the profession.							
Course Content		Numbers, Operations about numbers, Ebob-Ekok, Absolute Value, Problems, Logic, Sets.							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Individual Study, Problem Solving					
Name of Lecturer(s)		Ins. Gülcenur KESEBİR, Ins. Ümit NARİNCE							

### Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	60

### Recommended or Required Reading

1	Instructor's lecture notes
---	----------------------------

Week	Weekly Detailed Course Contents	
1	Theoretical	Numbers
2	Theoretical	Ebob-Ekok
3	Theoretical	Absolute value
4	Theoretical	Exponential numbers
5	Theoretical	Radical numbers
6	Theoretical	Number Fraction Problems
7	Theoretical	Age Problems
8	Theoretical	Worker-Pool Problems Midterm Exam
9	Theoretical	Speed Problems
10	Theoretical	Mix Problems
11	Theoretical	Percentage, Profit-Loss Problems
12	Theoretical	Graphics Problems
13	Theoretical	Clusters
14	Theoretical	Logic

### Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Individual Work	1	4	1	5
Midterm Examination	1	7	1	8
Final Examination	1	8	1	9
Total Workload (Hours)				50
[Total Workload (Hours) / 25*] = ECTS				2

\*25 hour workload is accepted as 1 ECTS

### Learning Outcomes

1	At the end of this course, students will be able to do algebraic operations related to their profession.
2	At the end of this lecture, students gain information on basic mathematical concepts.
3	Students learn specific quantitative methods and their applications in business in this lecture
4	They will have the necessary mathematical knowledge for the problems they face.



5	Students will be able to interpret the applied processes based on mathematical data.
---	--------------------------------------------------------------------------------------

**Programme Outcomes (Quality Control in Production)**

1	To be able to be bounded to the Atatürk nationalism, adopted to the national, ethic, spiritual and cultural value of the Turkish Nation, opened to the universal and modern development, adopted the richness, deep seated and productive properties of the Turkish language, having language sympathy and awareness, having reading pleasure and habit and having sufficient foreign language for their vocational necessities, In the directions of the Atatürk Principles and Revolutions,
2	To be able to comprehend social, cultural and societal responsibility and keep up with national and international up contemporary issues and developments.
3	Utilizes together mathematics, science and theoretical and applied knowledge in their field for engineering solutions.
4	Determines, identifies formulates and solves the problems. For this purpose selects and applies analytical methods and modeling techniques.
5	Selects and utilizes the necessary modern techniques and equipment for industrial applications.
6	Designs and performs experiments, collects data and analyzes and elaborates results.
7	Works effectively as an individual or in multidisciplinary teams.
8	Collects information and makes literature survey for this purpose, utilizes databases and other information sources.
9	Be aware of lifelong learning; follows the developments in science and technology and continuously renews himself.
10	Analyzes and designs under realistic constraints a system, a system component or a process for meeting the required needs, for this purpose applies modern design methods.
11	Acquires professionalism and ethical responsibility in the profession.
12	Communicates by using technical drawing and manufacturing knowledge.
13	Be aware of the universal and social effects of industrial solutions and applications; is aware of entrepreneurship and innovation and has idea about the problems of the era.
14	Has knowledge about quality assurance and standardization and possess skills of execution of operations. In the same time, has the professional and ethical responsibility.
15	Is conscious of project management, business administration, health of the workers, environment and work safety; is aware of the legal consequences of industrial applications.

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

	L1	L2	L3	L4	L5
P2	1	1	1	2	3
P3	5	5	5	5	5
P4	5	5	5	5	5
P5	1	1	1	2	3
P6	4	4	4	4	3
P7	2	2	2	2	2
P8	1	1	1	1	1
P9	2	2	2	2	2
P10	1	1	1	1	1
P12	1	2	1	2	3

