



## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		General Mathematics I							
Course Code		FBÖ155		Course Level		First Cycle (Bachelor's Degree)			
ECTS Credit	2	Workload	50 (Hours)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course		The objective of this course is to have students have a general understanding to be successful in advanced mathematics and the foundations of the mathematics. The subjects of this course are listed below: Numbers, first and second order equations and their solutions, functions, limit and continuity.							
Course Content		1 Numbers 2 Functions 3 Limit 4 Continuity 5 Undefined types of limit							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Individual Study, Problem Solving					
Name of Lecturer(s)									

Assessment Methods and Criteria		
Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	60

Recommended or Required Reading	
1	Genel Matematik-Ahmet Dernek
2	Genel Matematik-Doğan Çoker, Kenan Taş, Orhan Özer
3	Analiz 1- Mustafa BALCI

Week	Weekly Detailed Course Contents	
1	Theoretical	Numbers (Natural, integers, rational and real numbers)
2	Theoretical	Cartesian product and relations
3	Theoretical	First and second order equations and their solutions
4	Theoretical	First and second order equations and their solutions
5	Theoretical	Functions and its properties
6	Theoretical	Trigonometric, Exponential and Logarithmic Functions
7	Theoretical	Trigonometric, Exponential and Logarithmic Functions
8	Intermediate Exam	midterm
9	Theoretical	Limit
10	Theoretical	Limits of functions
11	Theoretical	Limits of functions
12	Theoretical	Undefined types of limit
13	Theoretical	Concept of Continuity
14	Theoretical	Continuity properties of functions and types of continuity
15	Theoretical	Continuity properties of functions and types of continuity
16	Final Exam	final

Workload Calculation				
Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	2	1	42
Midterm Examination	1	4	0	4



Final Examination	1	4	0	4
Total Workload (Hours)				50
[Total Workload (Hours) / 25*] = ECTS				2
*25 hour workload is accepted as 1 ECTS				

### Learning Outcomes

1	Will be able to comprehend number sets and thie characteristics
2	Will be able to know the definition of relation and the characteristics of it
3	Will be able to comprehend and apply the funtion concept and its characteristics
4	Will be able to interpret the graphics of functions
5	Will be able to comprehend and apply limit concept
6	Will be able to comprehend and apply the continuousness concept

### Programme Outcomes (Science Teacher Education)

1	To be able to gain subject knowledge of profession in theory and practice in the learning process.
2	To be able to gain the competence of using the appropriate approach, strategy, method and technique for the instructional plans to be prepared in the learning process.
3	To be able to gain the skills of the teaching profession in the learning process.
4	To be able to implement teaching profession knowledge, skills, attitudes and habits related to the subject-matter in a real teaching and learning environment in the learning process.
5	To be able to comprehend contemporary approaches of education and the philosophy they are based on.
6	To be able to gain the basic skills such as comprehending, expressing, commenting, evaluating, being aware and enterprising, communicating, acknowledging the individual related to the subject-matter.
7	To be able to become individuals faithful to the Principles and Revolutions of Ataturk, be modern democratic, secular, protecting and deveoping one's country, being alive to the nation, respecting human rights, preserving the nature, not being discriminatory, giving importance to the traditions and customs, protecting the values
8	To be able to improve oneself in terms of sport, art and culture.
9	To be able to become individuals believing in lifelong learning.
10	To be able to gain the vision of being individuals who keep up with developments in social, economic, technological and scientific areas, who investigate the main reasons of World problems and try to contribute to the solutions of these problems.

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

	L1	L2	L3	L4	L5	L6
P1	5	5	4	5	5	
P2	5	5	4	4	5	5
P3	5	5	5	4	5	5
P4	4	5		5	4	5
P5	4	5	5	4	4	5
P6	4	5	5	5	4	4
P7	5	5	4	4	5	4
P8	5	5		4	4	5
P9	5		5	4	5	4
P10		4	4		4	5

