AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title	General Mathematics II								
Course Code	FBÖ156			Couse Level		First Cycle (Bachelor's Degree)			
ECTS Credit	3	Workload	75 *(Hours)*	Theory	2	Practice	0	Laboratory	0
Objectives of the Course	To examine the development of the theoretical structure of the differential and integral calculation and interpret this.								
Course Content	The limit concept in the functions and their applications The continuity concept in the functions and their applications								
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	Balcı, A. (1997). Analiz I, Ertem Basın Yayın Dağıtım.
2	Çoker,D. & O. Özer & K. Taş (1994) Genel Matematik. Ankara: Adım Yayıncılık.
3	Genel Matematik - Ahmet Dernek

Week	Weekly Detailed Course Contents	
1	Theoretical	The derivative concept in the functions
2	Theoretical	The derivative formulas in the functions
3	Theoretical	The derivative formulas in the functions
4	Theoretical	The derivatives of the trigonometric, exponential, hyperbolic functions and their adverse functions, and higher derivatives
5	Theoretical	The derivatives of the trigonometric, exponential, hyperbolic functions and their adverse functions, and higher derivatives
6	Theoretical	The ekstremum and absolute ekstremum points of the functions, ekstremum problems
7	Theoretical	Rolle' Theorem, Mean Value Theorem, Finite Taylor' Theorem and L'Hospital rules and limit calculations by using L'Hospital rule
8	Intermediate Exam	midterm
9	Theoretical	The integral concept, indefinite integrals
10	Theoretical	The integral concept, indefinite integrals
11	Theoretical	The integral concept, indefinite integrals
12	Theoretical	Definite integrals
13	Theoretical	Definite integraller
14	Theoretical	The area and volume calculations by using definite integral
15	Theoretical	The area and volume calculations by using definite integral
16	Final Exam	final

Workload Calculation				
Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	2	2	56
Midterm Examination	1	8	1	9

Final Examination	1	9	1	10
			Total Workload (Hours)	75
			[Total Workload (Hours) / 25*] = **ECTS**	3
**25 hour workload is accepted as 1 ECTS*				

Learning Outcomes	
1	will be able to express the conditions of existing of the mathematical functions with one unknown variable and state these functions mathematically
2	will be able to do calculations regarding derivative and inegral of the functions with one unknown variable
3	will be able to explain and use the Rolle Theorem, Mean Value Theorem, Finite Taylor Theorem and L hospital
4	will be able to compare definite integral and derivative concepts and interrelate these concepts with limit and continuousness concepts
5	will be able to solve problems by using derivative and integral, do modelling.

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
P1	5	5			5
P2	5	5	5	5	5
P3	4	4	5	5	5
P4	5	4	4	5	5
P5	4	4	4	4	5
P6	4	4	4	4	5
P7	4	5	5	5	4
P8	4	4	5	4	4
P9	5	5	5	5	4
P10	4	4	5	4	