AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title	General Mathematics II								
Course Code	MAT174		Couse Level	First Cycle (Bachelor's Degree)					
ECTS Credit	5	Workload	127 *(Hours)*	Theory	3	Practice	0	Laboratory	0
Objectives of the Course	The aim of this course is to give concept of integral to make connection between definite integrals and indefinite integrals, and to understand applications of integral, and also is to give matrices and linear equation systems.								
Course Content	Definite integrals, indefinite integrals, applications of integrals, matrices, linear equation systems								
Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Explanation (Presentation), Discussion, Individual Study, Problem Solving								
Name of Lecturer(s)	Ins. Nihal GÜNEL, Lec. Ahmet ÜNLÜ								

Assessment Methods and Criteria		
Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	70

Recommended or Required Reading	
1	Kenneth A. Ross, Elementary Analysis: The Theory of Calculus, Springer-Verlag(1980)
2	Çoker ., Özer O., Taş K. '' Genel Matematik", Cilt 1 (1996)
3	Thomas, G.B. and Finney, R.L.,"Calculus and Analytic Geometry", 9th ed.,Addison Wesley,(1998)
4	Prof.Dr.Mustafa Balcı "Genel Matematik I" Balcı Yayınları
5	Doç.Dr.Cevdet Cerit,"Yüksek Matematik I"
6	Yrd.Doç.Dr.Gonca Güngöroğlu, Prof.Dr. Abdullah Harmancı "Lineer Cebir dersleri problemler ve çözümleri"

Week	**Weekly Detailed Course Contents**	
1	Theoretical	Riemann integral and its properties
2	Theoretical	Theorems of integrals
3	Theoretical	Method of change of variables and partial integral in definite integral
4	Theoretical	Definition of indefinite integral and methods of finding primitive
5	Theoretical	Trigonometric integrals
6	Theoretical	Rational functions integrals
7	Intermediate Exam	Midterm exam
8	Theoretical	Belirli integralde alan
9	Theoretical	Volume in definite integral
10	Theoretical	Areas of surfaces of revolution and lenght of arc.
11	Theoretical	Definition of matrix
12	Theoretical	Types of matrices
13	Theoretical	Determinants
14	Theoretical	Methods of solving linear equation systems
15	Theoretical	Methods of solving linear equation systems
16	Final Exam	Final Exam

Workload Calculation				
Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	4	3	98
Midterm Examination	1	10	2	12

Final Examination	1	15	2	17
			Total Workload (Hours)	127
			[Total Workload (Hours) / 25*] = **ECTS**	5
**25 hour workload is accepted as 1 ECTS*				

Learning Outcomes	
1	Ability to understand basic principle of concept of definite integral
2	Ability to understand the relationship between definite and indefinite integrals
3	Ability to use integral in areas of daily life
4	Ability to understand the concept of matrix
5	Ability to solve linear equation systems