



ADIYAMAN UNIVERSITY  
ARTS AND SCIENCE FACULTY  
DEPARTMENT OF MATHEMATICS

DESCRIPTION BOOKLET

2006

2023-2024

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## Department of Mathematics

Adiyaman University Department of Mathematics was established in 1998, affiliated with İnönü University Adiyaman Faculty of Arts and Sciences and started accepting students in the academic year 1999-2000. In 2006, the Department of Mathematics was affiliated with Adiyaman University Faculty of Arts and Sciences.



## Head of Department

Prof. Dr. Manaf MANAFLI

## Vice Chairs

Assoc. Prof. Dr. Mustafa UÇKUN

## Academic Staff

### Department of Analysis and Functions Theory

Prof. Dr. Seyit TEMİR

Prof. Dr. İbrahim Halil GÜMÜŞ

Assoc. Prof. Faik GÜRSOY

Assoc. Prof. Mehmet ŞENGÖNÜL

Lec. Dr. Fatma BOZKURT

### Department of Algebra and Number Theory

Assoc. Prof. Mehmet Ali ÖZTÜRK

Assoc. Prof. Mustafa UÇKUN

Rsc. Asst. Dr. Özlem TEKİN

### Department of Geometry

Assoc. Prof. Bilal Eftal ACET

Assoc. Prof. Şener YANAN

Rsc. Asst. Dr. Gülden MÜLAYİM

## **Department of Fundamentals of Mathematics and Mathematical Logic**

Assoc. Prof. Üyesi Ebubekir İNAN

## **Department of Topolgy**

Prof. Dr. Selcen YÜKSEL PERKTAŞ

Assoc. Prof. Müzeyyen ERTÜRK

## **Department of Applied Mathematics**

Prof. Dr. Manaf MANAFLI

Assoc. Prof. Merve AVCI ARDIÇ

Assoc. Prof. Özlem AK GÜMÜŞ

Asst. Prof. Esen HANAÇ DURUK

## **Department Secretary**

Fatma İNANIR

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- **Mission & Vision**

### **Mission**

The Mathematics Department aims to raise individuals who can conduct scientific research at the international level, who are self-confident, who can follow new developments, who have absorbed basic academic mathematics and mathematical thinking and who will gain respectable places both in the science life of our country and in the society and business life.

### **Vision**

The vision of the Mathematics Department is to become a nationally and internationally recognised and preferred department in the field of mathematics.

## **Importance of Departments of Mathematics**

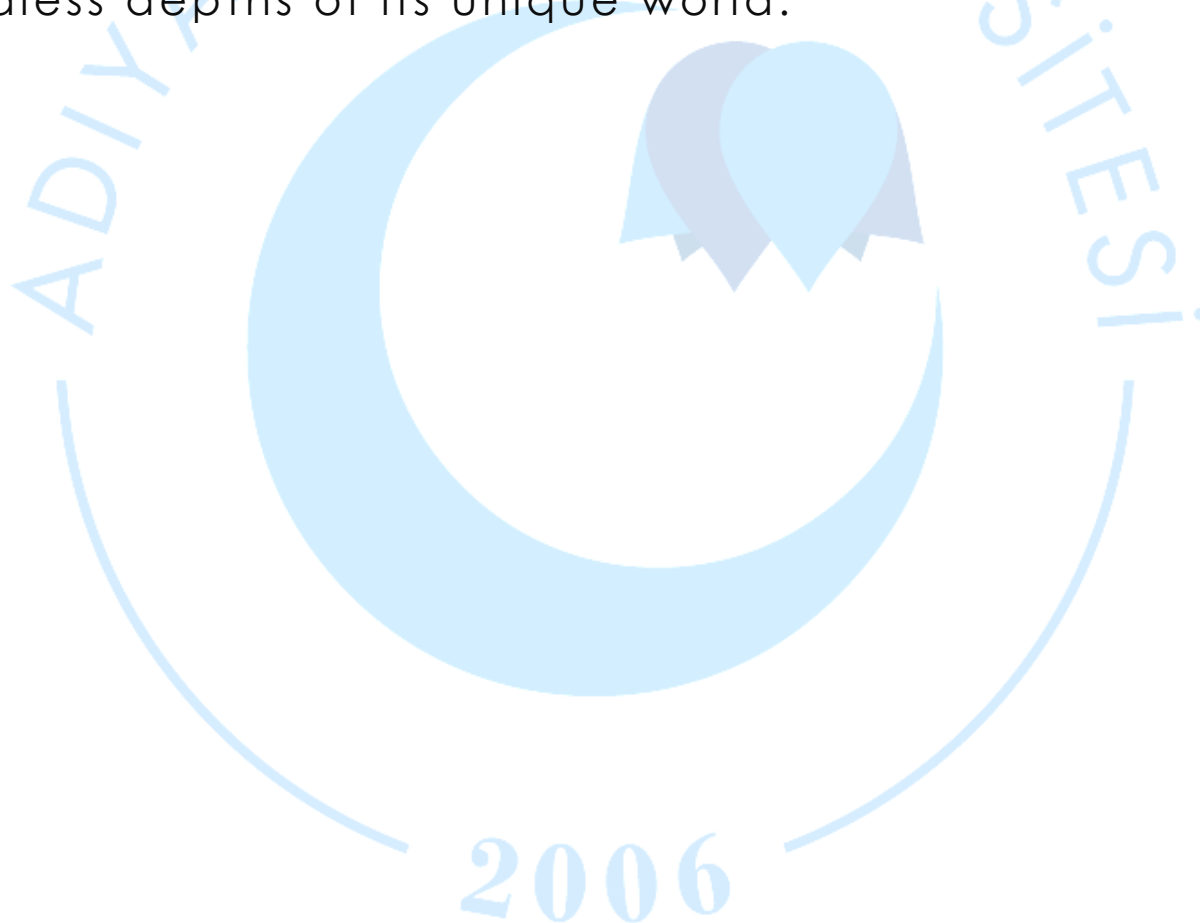
The rapid progress in science and technology in our age brings new knowledge, skills, and technical and technological tools to the agenda in every field.

Especially great developments in computer technology have led to the emergence of new mathematical disciplines. Therefore, the need for people who know, understand and interpret mathematics shows the importance of mathematics and mathematics departments.

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## Why the Department of Mathematics?

Mathematics, which is the basis of science, enable us to expand our horizons and look at the events around us from various angles as we descend into the endless depths of its unique world.





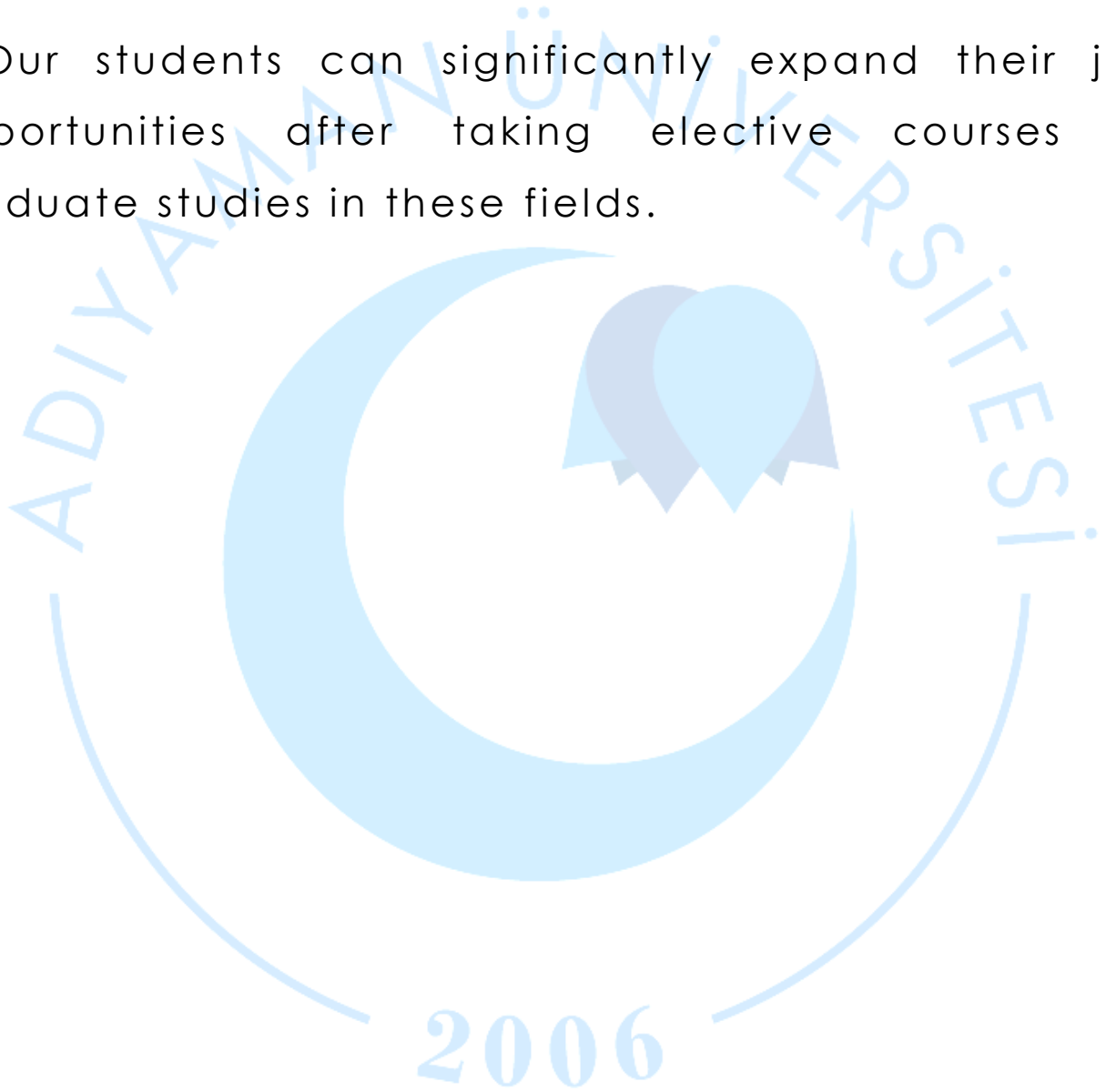
## Job Opportunities for Our Graduate Students

Graduates of the Department of Mathematics continue to work in applied mathematics, computer, and education in public and private sectors, some of them in universities and research institutions. Today, in many different areas such as credit card security including encryption and coding, security in other banking transactions, communication security, environmental problems, imaging of DNA sequences, aircraft modelling, climate and cosmology, molecular dynamics, integrated circuit design, investment planning, stock market risk analysis, Mathematics finds applications and creates increasing employment opportunities for our graduates.

Our graduates have the opportunity to work as teachers in secondary education and private high schools by providing the requirements stipulated by the Ministry of National Education.

In addition, there is a need for mathematicians in areas such as data mining and cryptology, which is an increasingly popular, profession, which requires statistics and database knowledge.

Our students can significantly expand their job opportunities after taking elective courses or graduate studies in these fields.



## Highest and Lowest Placement Scores According to Central Placement

According to the results of ÖSYS placement announced by the Directorate of Assessment, Selection and Placement Center in 2023, the student has been placed in our department with the highest score of 377,52706, while the student has been placed with the lowest 291,92056 scores. All of the 40 student quotas opened in total have been filled. 213 students continue their education in our department.

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# Course Catalogue

1. Class					
Code	Course Name	ECTS	WCH T+A/C	C/E	La.
<b>First Semester</b>					
FZK101	Physics I	5	4+0/4	C	T
MTK103	Analysis I	6	4+2/5	C	T
MTK105	Abstract Mathematics I	6	3+0/3	C	T
MTK107	Analytical Geometry I	6	3+0/3	C	T
TD101	Turkish Language I	2	2+0/2	C	T
YD101	Foreign Language (English) I	3	2+0/2	C	T
AlİT101	Ataturk Principles and History of Turkish Revolution I	2	2+0/2	C	T
Fall Semester Total :		<b>30</b>	<b>20+2/21</b>		
<b>Second Semester</b>					
FZK102	Physics II	5	4+0/4	C	T
MTK104	Analysis II	6	4+2/5	C	T
MTK106	Abstract Mathematics II	4	3+0/3	C	T
MTK108	Analytical Geometry II	4	3+0/3	C	T
TD102	Turkish Language II	2	2+0/2	C	T
YD102	Foreign Language (English) II	3	2+0/2	C	T
AlİT102	Ataturk Principles and History of Turkish Revolution II	2	2+0/2	C	T
ENF102	Basic Information Technology	4	2+0/2	C	T
Spring Semester Total :		<b>30</b>	<b>22+2/23</b>		
YEAR TOTAL :		<b>60</b>			

2. Class					
Code	Course Name	ECTS	WCH T+A/C	C/E	La.
<b>Third Semester</b>					
MTK201	Linear Algebra I	6	4+0/4	C	T
MTK203	Probability and Statistics I	6	3+0/3	C	T
MTK205	Advanced Analysis I	6	4+0/4	C	T
MTK207	Coding I	6	2+2/3	C	T
MTK209	Numerical Analysis I	6	3+0/3	C	T
Fall Semester Total:		<b>30</b>	<b>16+2/17</b>		
<b>Fourth Semester</b>					
MTK202	Linear Algebra II	6	4+0/4	C	T
MTK204	Probability and Statistics II	6	3+0/3	C	T
MTK206	Advanced Analysis II	6	4+0/4	C	T
MTK208	Coding II	6	2+2/3	C	T
MTK210	Numerical Analysis II	6	3+0/3	C	T
Spring Semester Total:		<b>30</b>	<b>16+2/17</b>		
YEAR TOTAL :		<b>60</b>			

3. Class					
Code	Course Name	ECTS	WCH T+A/C	C/E	La.
<b>Fifth Semester</b>					
MTK301	Algebra I	5	4+0/4	C	T
MTK303	Differential Equations I	5	3+0/3	C	T
MTK305	Complex Functions Theory I	5	4+0/4	C	T
MTK307	Topology I	5	3+0/3	C	T
MTK309	Professional English	5	3+0/3	C	T
MTK4xx	Elective	5	3+0/3	E	T
Fall Semester Total:		<b>30</b>	<b>20+0/20</b>		
<b>Sixth Semester</b>					
MTK302	Algebra II	5	4+0/4	C	T
MTK304	Differential Equations II	5	3+0/3	C	T
MTK306	Complex Functions Theory II	5	4+0/4	C	T
MTK308	Topology II	5	3+0/3	C	T
MTK310	Real Analysis	5	3+0/3	C	T
MTK3xx	Elective	5	3+0/3	E	T
Spring Semester Total:		<b>30</b>	<b>20+0/20</b>		
YEAR TOTAL:		<b>60</b>			

4. Class					
Code	Course Name	ECTS	WCH T+A/C	C/E	La.
<b>Seventh Semester</b>					
MTK401	Partial Differential Equations	5	3+0/3	C	T
MTK403	Differential Geometry I	5	3+0/3	C	T
MTK405	Functional Analysis I	5	3+0/3	C	T
MTK451	Graduation Study I	5	0+2/1	C	T
MTK4xx	Elective	5	3+0/3	E	T
MTK4xx	Elective	5	3+0/3	E	T
Fall Semester Total:		<b>30</b>	<b>15+2/16</b>		
<b>Eighth Semester</b>					
MTK404	Differential Geometry II	5	3+0/3	C	T
MTK406	Functional Analysis II	5	3+0/3	C	T
MTK418	Number Theory	5	3+0/3	C	T
MTK452	Graduation Study II	5	0+2/1	C	T
MTK4xx	Elective	5	3+0/3	E	T
MTK4xx	Elective	5	3+0/3	E	T
Spring Semester Total:		<b>30</b>	<b>15+2/16</b>		
YEAR TOTAL:		<b>60</b>			
ECTS TOTAL :		<b>240</b>			
NATIONAL GRADUATION CREDIT:		<b>150</b>			

## Elective Courses

### 3. Class

Code	Course Name	ECTS	WCH T+A/C	C/E	La.
<b>Fifth Semester</b>					
MTK311	Linear Programming	5	3+0/3	E	T
MTK313	Transformations and Geometries	5	3+0/3	E	T
MTK315	Mathematics and Analysis	5	3+0/3	E	T
MTK317	Metric Spaces	5	3+0/3	E	T
MTK319	Dynamic Geometry Programs	5	3+0/3	E	T
MTK321	Entrepreneurship	5	3+0/3	E	T
KP301	Career Planning	5	2+0/2	E	T
<b>Sixth Semester</b>					
MTK312	Difference Equations	5	3+0/3	E	T
MTK314	Fuzzy Mathematics	5	3+0/3	E	T
MTK316	Foundations of Geometry	5	3+0/3	E	T
MTK318	History of Mathematics	5	3+0/3	E	T
MTK320	The Medical Application of Fuzzy Set Theory	5	3+0/3	E	T
MTK322	Quality Management	5	3+0/3	E	T

For elective courses determined by the Rectorate T+A/C → 2+0/2

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## Elective Courses

### 4. Class

Code	Course Name	ECTS	WCH T+A/C	C/E	La.
<b>Seventh Semester</b>					
MTK407	Discrete Mathematics	5	3+0/3	E	T
MTK409	Scientific Text Preparation	5	3+0/3	E	T
MTK411	Fourier Analysis	5	3+0/3	E	T
MTK413	Convexity and Optimization	5	3+0/3	E	T
MTK415	Module Theory	5	3+0/3	E	T
MTK417	Computer Aided Statistic	5	3+0/3	E	T
MTK419	Fractal Geometry	5	3+0/3	E	T
MTK421	Graphical Design	5	3+0/3	E	T
İDL453	Sign Language	5	2+0/2	E	T
<b>Eighth Semester</b>					
MTK402	Financial Mathematics	5	3+0/3	E	T
MTK408	Computer Aided Mathematics	5	3+0/3	E	T
MTK410	Field Extensions	5	3+0/3	E	T
MTK412	Combinatorial	5	3+0/3	E	T
MTK414	Measurement Theory	5	3+0/3	E	T
MTK416	Finite Difference Methods	5	3+0/3	E	T
MTK420	Mathematical Modelling and Simulation	5	3+0/3	E	T
MTK422	Volunteer Studies	5	3+0/3	E	T
MTK424	The Application of Mathematics	5	3+0/3	E	T
AHL454	Ahi and Professional Ethics	5	2+0/2	E	T

For elective courses determined by the Rectorate T+A/C → 2+0/2

**WCH:** Weekly Course Hour

**T+U/K:** Theoretical +Application/Credit

**AKTS:** European Credit Transfer System

**C/E:** Compulsory/Elective

**La.:** Language (T: Turkish)

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## Mathematics Department Activities

As the Department of Mathematics, we regularly organize Mathematics Days under the name of Mathematics Society every year. As part of this event, our faculty members, academic staff/members of our department and our students, who are well-known in their fields, make presentations. In this activity, it was aimed to increase the relationship between students and academic personnel in academic terms by giving responsibility to each student and each academic member/staff member of the Mathematics Society. Besides undergraduate students, there are also secondary education students as the audience. Therefore, within the scope of this activity, it was aimed to reach a wider audience and introduce the Mathematics Department at the undergraduate and graduate levels. In addition, academic cooperation is developed by organizing events such as trips and dinners for guest faculty members.

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ARTS AND SCIENCE FACULTY  
DEPARTMENT OF MATHEMATICS

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