



ADYAMAN UNIVERSITY
FACULTY OF LETTERS AND
SCIENCE
DEPARTMENT OF MATHEMATICS
DESCRIPTION BOOKLET

2026-2027

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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.

The Department of Mathematics offers a Double Major Program with the Department of Electrical and Electronics Engineering under the Faculty of Engineering, as well as a Minor Program with the Department of Biology under the Faculty of Arts and Sciences.

2006

Accreditation

The Mathematics (First Education) Undergraduate Program of Adıyaman University, Faculty of Arts and Sciences, which underwent its initial General Evaluation by FEDEK during the 2024 Evaluation Period, has been granted ACCREDITATION for the period from March 21, 2025, to September 30, 2027.

FEDEK

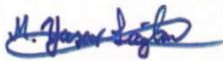
FEN, EDEBİYAT, FEN-EDEBİYAT, DİL VE TARİH - COĞRAFYA FAKÜLTELERİ ÖĞRETİM PROGRAMLARI
DEĞERLENDİRME VE AKREDİTASYON DERNEĞİ

AKREDİTASYON BELGESİ

ADİYAMAN ÜNİVERSİTESİ
FEN FEDEBİYAT AKÜLTESİ

MATEMATİK
LİSANS PROGRAMI

21 MART 2025 – 30 EYLÜL 2027
TARİHLERİ ARASINDA GEÇERLİ OLMAK ÜZERE AKREDİTE EDİLMİŞTİR



Prof. Dr. Musa Yaşar SAĞLAM
FEDEK Genel Sekreteri



Prof. Dr. Sadullah SAKALLIOĞLU
FEDEK Yönetim Kurulu Başkanı

Belge No: 21.03.2025-30.09.2027-539

Head of Department

Prof. Dr. Seyit TEMİR

Vice Chairs

Assoc. Prof. Dr. Mustafa UÇKUN

Assoc. Prof. Dr. Şener YANAN

Academic Staff

Department of Analysis and Functions Theory

Prof. Dr. Seyit TEMİR

Prof. Dr. İbrahim Halil GÜMÜŞ

Prof. Dr. Faik GÜRSOY

Assoc. Prof. Dr. Mehmet ŞENGÖNÜL

Asst. Prof. Dr. Fatma BOZKURT

Department of Algebra and Number Theory

Assoc. Prof. Dr. Mehmet Ali ÖZTÜRK

Assoc. Prof. Dr. Mustafa UÇKUN

Rsc. Asst. Dr. Özlem TEKİN

Department of Geometry

Prof. Dr. Bilal Eftal ACET

Assoc. Prof. Dr. Şener YANAN

Rsc. Asst. Dr. Gülden MÜLAYİM

Department of Topology

Prof. Dr. Selcen YÜKSEL PERKTAŞ

Prof. Dr. Müzeyyen ERTÜRK

Department of Applied Mathematics

Prof. Dr. Merve AVCI ARDIÇ

Assoc. Prof. Dr. Özlem AK GÜMÜŞ

Asst. Prof. Dr. Esen HANAÇ DURUK

Department Secretary

Enver MAMAK

- **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.

2006

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.



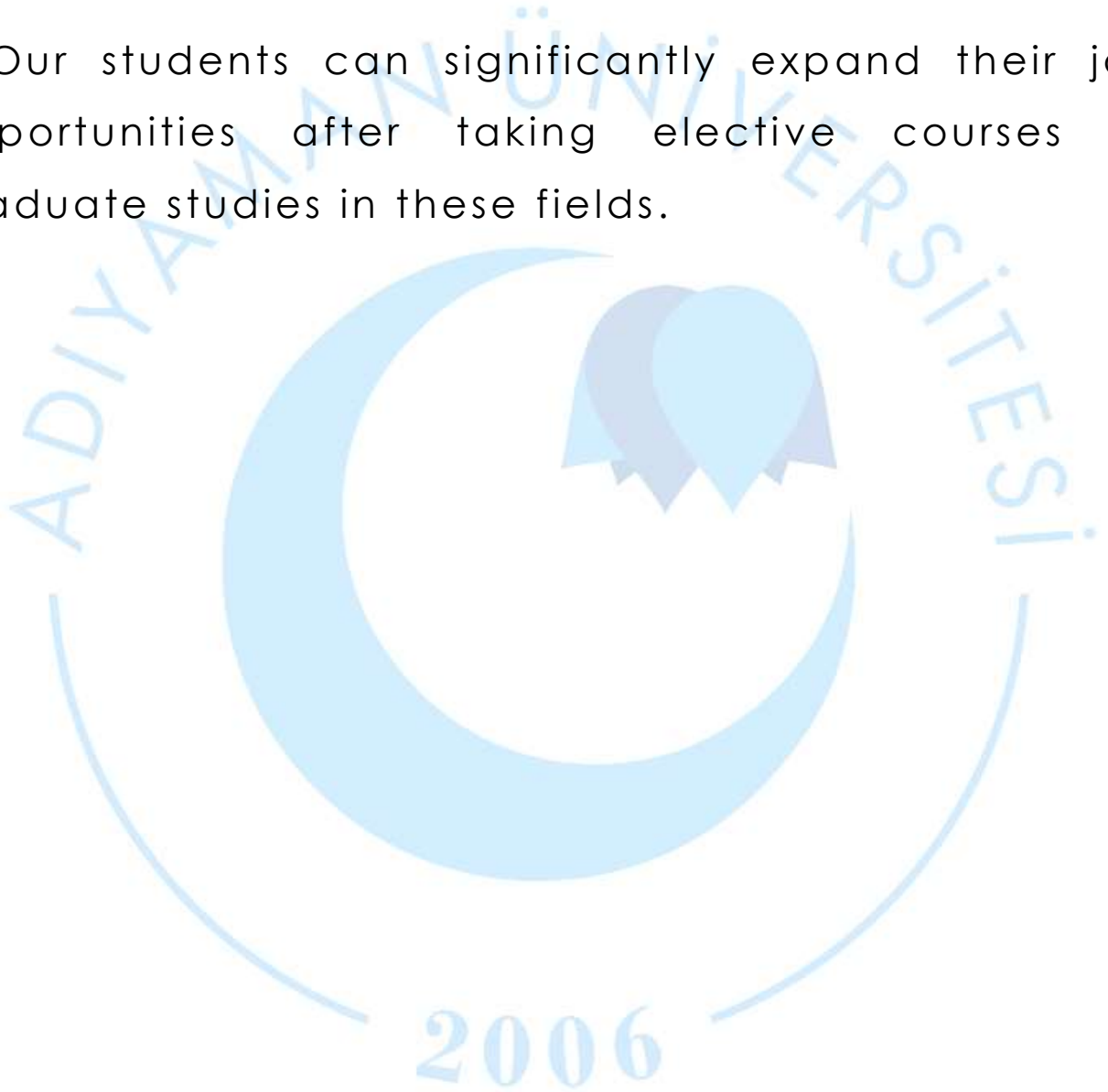
Job Opportunities for Our Graduate Students

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 2025, the student has been placed in our department with the highest score of 299,50114, while the student has been placed with the lowest 274,26927 scores. All of the 37 student quotas opened in total have been filled. 243 students continue their education in our department.

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ADYAMAN UNIVERSITY
FACULTY OF SCIENCES AND LETTERS
DEPARTMENT OF MATHEMATICS

UNDERGRADUATE COURSE CURRICULUM

1. YEAR					
Code	Course Title	ECTS	WCT T+P+L	C/E	Language
First Semester					
FZK101	Physics I	5	3+0+1	C	T
MAT103	Calculus I	6	4+0+0	C	T
MAT105	Abstract Mathematics I	6	4+0+0	C	T
MAT107	Analytic Geometry I	6	3+0+0	C	T
TD101	Turkish Language I	2	2+0+0	C	T
YD101	Foreign Language (English) I	3	2+0+0	C	E
AIT101	Atatürk's Principles and History of The Revolutions I	2	2+0+0	C	T
First Semester Total :		30	20+0+1		
Second Semester					
FZK102	Physics II	5	3+0+1	C	T
MAT104	Calculus II	5	4+0+0	C	T
MAT106	Abstract Mathematics II	5	4+0+0	C	T
MAT108	Analytic Geometry II	4	3+0+0	C	T
TD102	Turkish Language II	2	2+0+0	C	T
YD102	Foreign Language (English) II	3	2+0+0	C	E
AIT102	Atatürk's Principles and History of The Revolutions II	2	2+0+0	C	T
ENF102	Technology of Foundation Information	4	2+0+0	C	T
Second Semester Total :		30	22+0+1		
YEAR TOTAL :		60			

2. YEAR					
Code	Course Title	ECTS	WCT T+P+L	C/E	Language
Third Semester					
MAT201	Linear Algebra I	5	4+0+0	C	T
MAT203	Probability and Statistics I	5	3+0+0	C	T
MAT205	Advanced Calculus I	5	4+0+0	C	T
MAT207	Differential Equations I	5	3+0+0	C	T
MAT209	Transformations and Geometries	5	3+0+0	C	T
MAT2xx	Elective	5	3+0+0	E	T
Third Semester Total :		30	20+0+0		
Fourth Semester					
MAT202	Linear Algebra II	5	4+0+0	C	T
MAT204	Probability and Statistics II	5	3+0+0	C	T
MAT206	Advanced Calculus II	5	4+0+0	C	T
MAT208	Differential Equations I	5	3+0+0	C	T
MAT210	Number Theory	5	3+0+0	C	T
MAT2xx	Elective	5	3+0+0	E	T
Fourth Semester Total :		30	20+0+0		
YEAR TOTAL :		60			

3. YEAR

Code	Course Title	ECTS	WCT T+P+L	C/E	Language
Fifth Semester					
MAT301	Algebra I	6	4+0+0	C	T
MAT303	Topology I	5	3+0+0	C	T
MAT305	Theory of Complex Functions I	5	4+0+0	C	T
MAT3xx	Elective	5	3+0+0	E	T
BIL3xx	Elective	4	3+0+0	E	T
OSDxxx	Elective	5	3+0+0	E	T
Fifth Semester Total :		30	20+0+0		
Sixth Semester					
MAT302	Algebra II	6	4+0+0	C	T
MAT304	Topology II	5	3+0+0	C	T
MAT306	Theory of Complex Functions II	5	4+0+0	C	T
MAT3xx	Elective	5	3+0+0	E	T
BIL3xx	Elective	4	3+0+0	E	T
OSDxxx	Elective	5	3+0+0	E	T
Sixth Semester Total :		30	20+0+0		
YEAR TOTAL :		60			

4. YEAR

Code	Course Title	ECTS	WCT T+P+L	C/E	Language
Seventh Semester					
MAT401	Differential Geometry I	5	3+0+0	C	T
MAT403	Functional Analysis I	5	3+0+0	C	T
MAT451	Completion Thesis I	5	0+2+0	C	T
MAT4xx	Elective	5	3+0+0	E	T
MAT4xx	Elective	5	3+0+0	E	T
OSDxxx	Elective	5	3+0+0	E	T
Seventh Semester Total :		30	15+2+0		
Eighth Semester					
MAT402	Differential Geometry II	5	3+0+0	C	T
MAT404	Functional Analysis II	5	3+0+0	C	T
MAT452	Completion Thesis II	5	0+2+0	C	T
MAT4xx	Elective	5	3+0+0	E	T
MAT4xx	Elective	5	3+0+0	E	T
OSDxxx	Elective	5	3+0+0	E	T
Eighth Semester Total :		30	15+2+0		
YEAR TOTAL :		60			
ECTS TOTAL :		240			

ELECTIVE COURSES

2. YEAR

In-Field Elective Courses

Code	Course Title	ECTS	WCT T+P+L	C/E	Language
Third Semester					
MAT211	Metric Spaces	5	3+0+0	E	T
MAT213	Graphic Design	5	3+0+0	E	T
MAT215	Financial Mathematics	5	3+0+0	E	T
MAT217	Vocational English	5	3+0+0	E	T
Fourth Semester					
MAT212	Applications of Mathematics	5	3+0+0	E	T
MAT214	Fundamentals of Geometry	5	3+0+0	E	T
MAT216	Mathematical Modeling and Simulation	5	3+0+0	E	T
MAT218	History of Mathematics	5	3+0+0	E	T

ELECTIVE COURSES

3. YEAR

Code	Course Title	ECTS	WCT T+P+L	C/E	Language
Fifth Semester					
In-Field Elective Courses					
MAT307	Numerical Analysis I	5	3+0+0	E	T
MAT309	Mathematical Analysis	5	3+0+0	E	T
MAT311	Linear Programming	5	3+0+0	E	T
MAT313	Graph Theory	5	3+0+0	E	T
MAT315	Fuzzy Mathematics	5	3+0+0	E	T
Out-Field Elective Courses					
BIL3xx	Elective (*)	4	3+0+0	E	T
OSDxxx	Elective (**)	5	3+0+0	E	T
Sixth Semester					
In-Field Elective Courses					
MAT308	Numerical Analysis II	5	3+0+0	E	T
MAT310	Real Analysis	5	3+0+0	E	T
MAT312	Difference Equations	5	3+0+0	E	T
MAT314	Dynamic Geometry Software	5	3+0+0	E	T
MAT316	The Medical Applications of Fuzzy Set Theory	5	3+0+0	E	T
Out-Field Elective Courses					
BIL3xx	Elective (*)	4	3+0+0	E	T
OSDxxx	Elective (**)	5	3+0+0	E	T

"T+P+L → 3+0+0" for common elective courses determined by the Common Courses Coordinatorship.

ELECTIVE COURSES

4. YEAR

Code	Course Title	ECTS	WCT T+P+L	C/E	Language
Seventh Semester					
In-Field Elective Courses					
MAT405	Partial Differential Equations	5	3+0+0	E	T
MAT407	Discrete Mathematics	5	3+0+0	E	T
MAT409	Scientific Text Preparing	5	3+0+0	E	T
MAT411	Fourier Analysis	5	3+0+0	E	T
MAT413	Convexity and Optimization	5	3+0+0	E	T
MAT415	Module Theory	5	3+0+0	E	T
MAT417	Computer Assisted Statistics	5	3+0+0	E	T
Out-Field Elective Courses					
OSDxxx	Elective (**)	5	3+0+0	E	T
Eighth Semester					
In-Field Elective Courses					
MAT406	Cryptography	5	3+0+0	E	T
MAT408	Computer Aided Mathematics	5	3+0+0	E	T
MAT410	Field Extensions	5	3+0+0	E	T
MAT412	Combinatorics	5	3+0+0	E	T
MAT414	Measure Theory	5	3+0+0	E	T
MAT416	Finite Difference Methods	5	3+0+0	E	T
MAT418	Fractal Geometry	5	3+0+0	E	T
Out-Field Elective Courses					
OSDxxx	Elective (**)	5	3+0+0	E	T

"T+P+L → 3+0+0" for common elective courses determined by the Common Courses Coordinatorship.

(*) Among the **BIL** coded elective courses determined by the Adiyaman University Computer Department Head Office for the fall and spring semesters, the course(s) determined by the Mathematics Department Head Office before the fall and spring semesters of the relevant academic year and finalized by the Mathematics Department Board Decision can be selected by third-year students of our department under the supervision of the relevant academic advisor. **Web Address:** <https://obs.adiyaman.edu.tr/oibs/bologna/index.aspx>

(**) From the pool of **OSD** coded common elective courses determined by the Adiyaman University Common Courses Coordinatorship for the fall and spring semesters, the courses determined by the Mathematics Department Head Office before the fall and spring semesters of the relevant academic year and finalized by the Mathematics Department Board Decision can be selected by third-year and fourth-year students of our department under the supervision of the relevant academic advisor. **Web Address:** <https://ortakdersler.adiyaman.edu.tr>

This undergraduate course curriculum will come into effect in the 2025-2026 academic year.

WCT : Weekly Course Time

T+P+L : Theoretical + Practical + Laboratory

ECTS : European Credit Transfer System

C/E : Compulsory/Elective

Mathematics Department Activities

As the Department of Mathematics, we organize Mathematics Days under the name of Mathematics Society. 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.

On the other hand, the Mathematics Society applies for projects under UNIDES (University Student Societies Cooperation and Support Program), run by the Ministry of Youth and Sports, and organizes activities in collaboration with external stakeholders.

Specifically, the Mathematics Department Undergraduate Seminars are organized with the participation of students enrolled in the Graduation Thesis course over the last two academic years. In these public seminars, students deliver presentations on popular topics.

In addition to these, social activities such as breakfasts, iftar dinners, and tea hours organized by students or faculty members are also held.

ERASMUS+

Students of the Department of Mathematics can apply for Student Mobility for Studies or Traineeships at contracted institutions—or by establishing a new bilateral agreement—via Erasmus+ KA131 and Erasmus+ KA171 projects. Within this context, an Erasmus+ Information Meeting is organized for our students at the beginning of each academic year in cooperation with the Erasmus+ Coordinator's Office, one of our internal stakeholders.

ARTS AND SCIENCE FACULTY

DEPARTMENT OF MATHEMATICS

Address

Adiyaman University (ADYU)
Arts and Science Faculty
Department of Mathematics
Floor: 3
02040, City center / ADIYAMAN

Telephone: +90 (416) 223 1775

Fax: +90 (416) 223 1774

Internet: <http://matematik.adiyaman.edu.tr/>