

ABOUT US

The Mathematics Department offers masters and Ph.D. degrees since 1994. With our distinguished and experienced faculty, we provide a solid foundation in diverse research areas: Algebra and Number Theory, Analysis and Function Theory, Geometry, Applied Mathematics, Topology and Foundations of Mathematics and Logic.



OUR MISSION

The mission of the mathematics department is to provide a qualified education that raises patriotic individuals with cultural background and communication skills, developed research and problem-solving skills, and is able to lead others. Our aim is to provide the necessary mathematical infrastructure for the social, cultural, economic, scientific and technological development of our nation and humanity and to apply and disseminate the knowledge we produce.



OUR VISION

The vision of the mathematics department is to raise graduates who have a basic understanding of mathematics, can bring solutions to current problems and are open to continuous improvement; to prepare the infrastructure that will allow the scientific world to solve the problems that may be encountered today and in the future.



CONTACT

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SAKARYA UNIVERSITY



INSTITUTE OF NATURAL SCIENCES

MATHEMATICS GRADUATE STUDIES

“Life is good for only two things, discovering mathematics and teaching mathematics.”
S.D. Poisson

Algebra and Number Theory

Algebra and Number Theory is a branch of mathematics that studies major domains of mathematics such as Number Theory, Commutative Algebra, Algebraic Coding Theory, Cryptology, Algebraic Geometry. The aim of graduate education in Algebra and Number Theory is to train researchers who can develop theories related to Algebra and Number Theory and have the ability of solving problems in fields such as engineering, physics, chemistry, biology, cryptography, digital communication, economics.



Faculty with this focus:

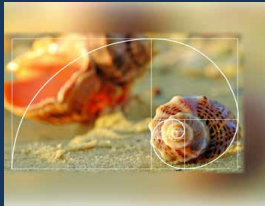
Prof. Dr. Mehmet Özen

Prof. Dr. Refik Keskin

Assoc. Prof. Dr. Murat Güzeltepe

Analysis and Function Theory

Analysis and Function Theory covers a large part of mathematical study areas such as integral calculus, theory of real and complex functions, approximation theory, fixed point theory, and the theory of integral equations, etc. The aim of graduate education in Analysis and Function Theory is to contribute to these theories and to solve current problems.



Faculty with this focus:

Prof. Dr. Metin Başarır

Assoc. Prof. Dr. Mustafa Eröz

Assoc. Prof. Dr. Selma Altundağ

Assoc. Prof. Dr. Aynur Şahin

Geometry

Geometry generally studies on invariant properties under some specific transformations. Theory of Curves and

Surfaces, as one of the main subjects of Geometry, has important applications in material sciences, modeling human faces, genetic analysis, information systems. The aim of graduate education in Geometry is to train researchers that can contribute to solve problems in such fields.

Faculty with this focus:

Prof. Dr. Murat Tosun

Prof. Dr. Mehmet Ali Güngör

Assoc. Prof. Dr. Mahmut Akyiğit

Asst. Prof. Dr. Hidayet Hüda Kösal

Applied Mathematics

Applied Mathematics is a branch of mathematics that concerns itself with mathematical methods used in science, engineering, business, and industry. Models used in many areas such as petroleum engineering, biology, physics, medicine and weather forecasts are often created with ordinary or partial differential equations and their mathematical properties are studied analytically. In this context, the aim of graduate education in Applied Mathematics is to train researchers and academicians having the ability of work in close collaboration with researchers from other fields.

Faculty with this focus:

Prof. Dr. Şevket Gür

Prof. Dr. Ömer Faruk Gözükızıl

Prof. Dr. Halim Özdemir

Assoc. Prof. Dr. Yalçın Yılmaz

Asst. Prof. Dr. Mehmet Güner

Asst. Prof. Dr. Emre Kişi

Topology

Topology developed as a field of study out of geometry and set theory, through analysis of such concepts as space, dimension, and transformation. It studies properties of spaces that are invariant under any continuous deformation. Also, one of the typical questions in topology is if every continuous function from the space (such as torus) to itself has a fixed point. The aim of graduate education in Topology is to train researchers who can examine the abstract features of such spaces and can interpret and use those properties in various applications.

Faculty with this focus:

Prof. Dr. Soley Ersoy

Assoc. Prof. Dr. İsmet Altıntaş

Assoc. Prof. Dr. Mahpeyker Öztürk



Foundations of Mathematics and Logic

Foundation of Mathematics and Logic is a branch of mathematics which is mainly concerned with the relationship between semantic concepts and syntactic concepts. It especially explores whether the truth value of mathematical statements can be obtained algorithmically within various axiom systems. The aim of graduate education in Foundations of Mathematics and Logic is to train mathematicians who are able to analyze and develop the foundations of mathematics via computability, provability and logical statements.

Faculty with this focus:

Prof. Dr. Metin Yaman

Assoc. Prof. Dr. Murat Sarduvan



Dr. Emine elik
Dr. Tuęba Petik