



**Isfahan
University of
Technology**

Department of Mathematical Sciences

In The Name of God

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Department of Mathematical Sciences



Overview

The Department of Mathematical Sciences was founded in 1976 as a part of the Department of Fundamental Sciences. It became an independent department in 1982, offering Bachelor Degrees in Mathematical Sciences, and later running Master programs in Pure and Applied Mathematics in 1986 and 2000, respectively. The department has offered Master programs in Pure and Socio-economic Statistics since 1996 and 1998, respectively. The department is currently offering PhD degrees in various disciplines of Mathematical and Computer Sciences.

The Department of Mathematical Sciences is the founder of the Mathematics Olympiad for high school students in 1983 and the organizer of a GRE-type Mathematical Test for the Iranian Academy of Sciences in 2006. The department organized the 12th Iranian Mathematics Conference in 1981, and the 1st and the 5th Iranian Statistics Conferences in 1992 and 2000, respectively, which led to the foundation of the Iranian Statistical Society. Other activities include the organization of the 1st Iranian Mathematics Educations Conference in 1996 and the 1st Seminar in Harmonic Analysis and Applications in 2013. The department is also the proposer of the Research Center for Teachers, Mathematics Houses, the Iranian Universities Admission Evaluation in 2002 and the Iranian Statistical Scheme in 2011.

As of December 2019, the department has 34 faculty members including 4 Full Professors, 14 Associate Professors and 16 Assistant Professors. It also has 369 Undergraduate students, 158 Master students and 73 PhD students in different disciplines of Mathematics and Statistics. Up until the present time, the department has conferred 2404 Bachelor Degrees, 1200 Master Degrees, and 118 PhD Degrees in various Mathematical disciplines.

Faculty Members:

- Assistant Professors: 16
- Associate Professors: 14
- Professors: 4

Website: **mathdept.iut.ac.ir**

Telephone: **+98 31 3391 2600**

Fax: **+98 31 3391 2602**



Degree Programs

■ **Bachelor's Program**

Mathematics and Applications

Statistics and Applications

■ **Master's Program**

Algebra

Coding and Cryptography

Combinatorics and Graph Theory

Dynamical Systems

Geometry

Logic and Model Theory

Mathematical Analysis

Numerical Analysis

Optimization

Socio-Economic Statistics

Mathematical Statistics

Topology

■ **Doctoral Program**

Algebra

Coding and Cryptography

Combinatorics and Graph Theory

Dynamical Systems

Geometry

Logic and Model Theory

Mathematical Analysis

Numerical Analysis

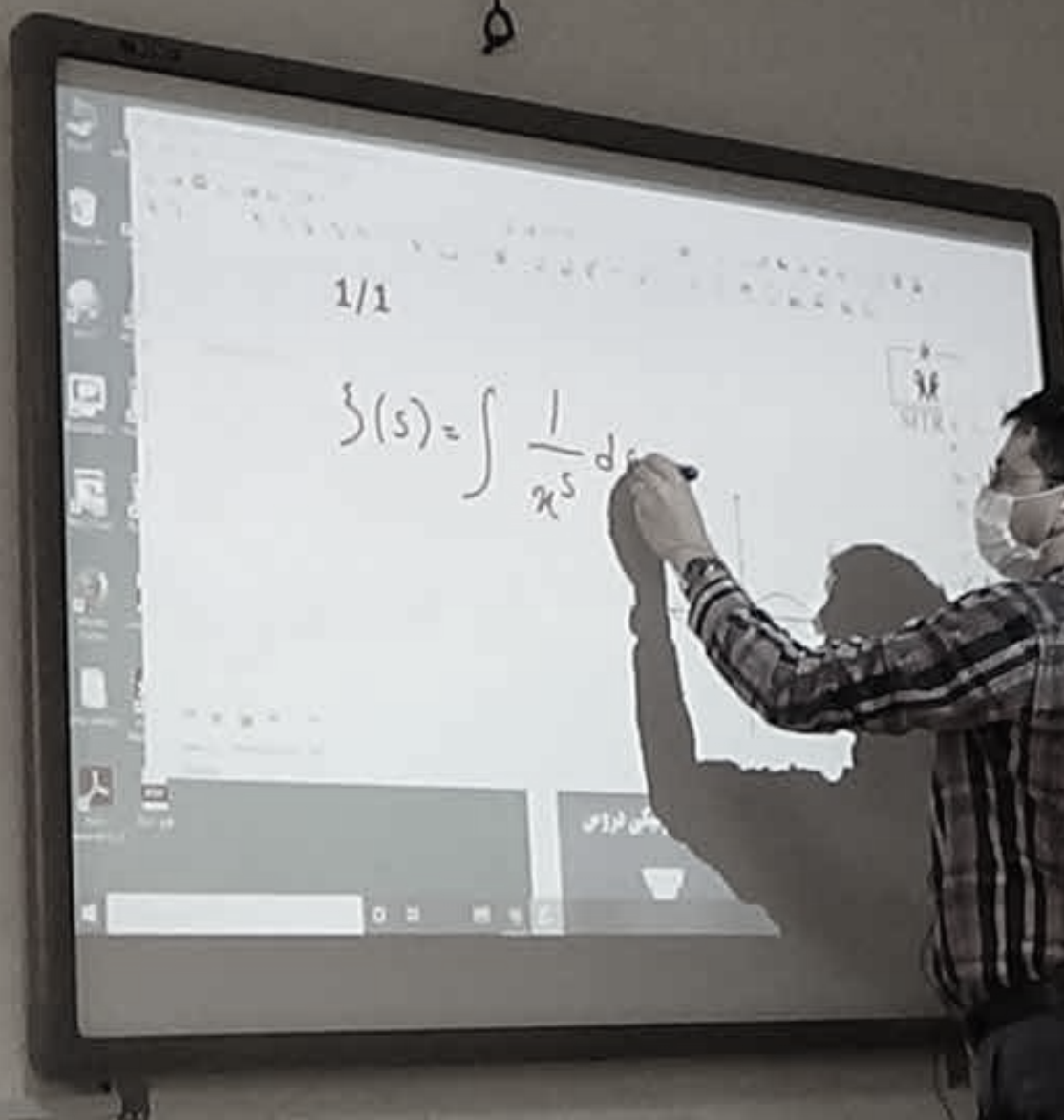
Optimization

Socio-Economic Statistics

Mathematical Statistics

Topology





1/1

$$\zeta(s) = \int \frac{1}{x^s} dx$$



Reasons to study at this Department

- **Variety of Disciplines:** The department is among the best in the country in terms of the wide diversity of disciplines. The department has recruited the best proficient specialists with expertise in most of the main applied and pure fields of mathematics and statistics. Consequently, a wide range of up-to-date courses in different fields are proposed each semester to cover the most of tastes and interests.
- **Minor Degree Offers:** The undergraduate programs of mathematics and statistics are flexible and allow for a wide choice of optional units. The students are also able to choose optional units offered by other departments and get a minor degree in other disciplines.
- **Production of Qualified Research:** Based on the database of American Mathematical Society (MathSciNet) which reviews almost all top qualified publications in mathematics, as of July 2020, the department of mathematical sciences in Isfahan University of Technology has the most number of publications among all mathematics departments within the country.
- **International Engagement:** The department has had an outstanding experience in international cooperation with many prominent departments all around the world and our faculty members are running many joint research projects with expertized professors abroad.
- **Mobility:** All PhD programs have a built-in mobility window, enabling students to take sabbatical leaves as part of their research work.
- **Work Placement:** The students can take advantage of our strong connections with industries and companies and go on a placement or apprenticeship as part of their studies.
- **Pleasure of Study:** There is a lovely campus with a variety of amusement and sport equipment. Also, there is a cozy place in the department for taking a rest and having lunch.

Research Disciplines

- Algebra (Group Theory, Commutative and Noncommutative)
- Coding, Cryptography and Information Theory
- Combinatorics and Graph Theory
- Differential Equations (Ordinary and Partial)
- Dynamical Systems (Continuous and Discrete)
- Geometry (Algebraic, Computational, Differential and Finite)
- Mathematical Analysis (Functional, Geometric, Harmonic, Stochastical)
- Mathematical Logic and Model Theory
- Mathematical Education
- Number Theory
- Numerical Analysis
- Operator Theory
- Optimization
- Probability
- Statistics
- Topology and
- Theoretical Computer Science (Algorithms and Computations) and Data Science

Collaborations with Industry and Other Organizations

The department has strong connections with industry and other external partners. Our collaboration research projects deal with organizational challenges. The department has active cooperative projects with Ministry of Education and some industrial companies including: Mobarakeh Steel Co., Ministry of Information and Communications Technology (Research Centre), Ministry of Energy, Ministry of Industries and Business, Isfahan Sugar Co., Iran Aircraft Manufacturing Industrial Co., etc.

International Profile

Projects

- Joint Research Project (OeAD) with University of Graz, Austria, 2018-2020.
- Collaboration with DAAD, University of Kassel, Germany. 2013, 2016, 2019.

Adjunct Professors

- Prof. Hans Crauel, Frankfurt am Main, Germany.
- Prof. Gundolf Haase, University of Graz, Austria.

Conferences and Workshops

Iranian-Austrian Winter School, from Biophysical Modelling to Simulation Codes, 2019.

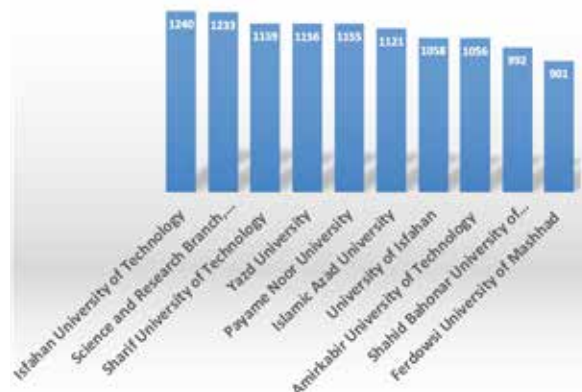
Iranian-Hungarian Workshop on Combinatorics, 2018.

13th International Seminar on Differential Equations, Dynamical Systems and Applications, 2016.

CIMPA Research School in Tiling and Tessellation, 2015.

MathSciNet

Based on the database of American Mathematical Society (MathSciNet), as of July 2020, the Department of Mathematical Sciences in Isfahan University of Technology has the most total recorded publications among all mathematics departments in Iran.





Awards

■ International

- Election of Dr. **Ali Rejali** as a conference **keynote speaker** by the **International Association for Statistical** in 2017.
- **Iranian Mathematical Society Prize** for "outstanding leadership roles in advancement of Mathematics" (**Behzad Prize**) awarded to Dr. **Ali Rejali** in 2012.
- **World Federation of National Mathematics Competitions Award (Paul Erdős Award)**, awarded to Dr. **Ali Rejali** in 2006 in recognition of his "significant role in the development of mathematical challenges at the national or international level and stimulus for the enrichment of mathematics learning."

■ National

- IUT Outstanding Lecturer Awards: 2019, 2017, 2016, 2015, 2014, 2013, 2011, 2010, 2008, 2007, 2004, 2003, 2000, 1999, 1998
- IUT Distinguished Supervisor Award: 2018
- IUT Outstanding Researcher Award: 2013
- Outstanding Researcher of Isfahan Province: 2017, 2015
- Election of Dr. Ali Rejali as a Senior Professor in Statistics by the Statistical Center of Iran in recommendation of the Iranian Statistical Society for "modernization of statistical system and implementation of national statistics development program of Iran" in 2019.
- Iranian Mathematical Society Prize for "best research presented at Annual Iranian Mathematics Conference" (Riazi Kermani Prize), awarded to Dr. Mahmood Behboodi in 2011, to Dr. Rasoul Nasr-Isfahani in 2013 and to Dr. Majid Gazor in 2019.

- Popularization of Science Award, for "skill in presenting scientific ideas to lay people" awarded to Dr. Ali Rejali in 2017.
- Iranian Academy of Sciences Award (Abu-Reyhan Award) in Mathematics, awarded to Dr. Mohammad Reza Koushesh in 2015.
- Iranian Mathematical Society Prize in Geometry & Topology (Hashtroodi Prize), awarded to Dr. Mohammad Reza Koushesh in 2012.
- Iranian Presidential Award (Loh Zarrin Sepas), awarded to Dr. Golam Reza Omid in 2011.
- Institute for Research in Fundamental Sciences (IPM) Prize for Young Mathematician, awarded to Dr. Golam Reza Omid in 2009.
- Iranian Ministry of Science, Research and Technology Award for "excellence in professorship" (Ostad Nemooneh), awarded to Dr. Ahmad Haghani in 1993.

■ Student Awards (National and International)

- Riazi Kermani Prize, Iranian Mathematical Society, 2019. (Nasrin Sadri)
- Alimohammadi Prize, Institute for Research in Fundamental Sciences (IPM) and Iran's National Elites Foundation, 2017. (Maryam Shahsiah)
- Riazi Kermani Prize, Iranian Mathematical Society, 2013. (Fatemeh Akhtari)
- Functional Analysis Award, Tusi Mathematics Research Group & Ferdowsi University of Mashhad, 2011. (Mehdi Nemati)
- International Scientific Olympiad in Statistics for University Students:
 - 1 Gold Medal, 2016. (Meysam Shafiei)
 - 1 Gold Medal, 2014. (Amir Abbas Mofidian)
- National Entrance Examinations:
 - 1st Place, PhD in Pure Mathematics, 2014. (Mazyar Ghani)
 - 2nd Place, MSc in Statistics, 2019. (Pooya Alinian)
 - 1st Place, MSc in Statistics, 2014. (Ahmad Reza Hajiheydari)
 - 1st Place, MSc in Statistics, 2013. (Amir Abbas Mofidian)

- Statistics Competition for University Students:
 - 3rd Place (team), 2015.
 - 1st Place (team), 2014.
 - 1st Place (team), 2007.
 - 2nd Place (team), 2003.
 - 2nd Place (team), 2002.
 - 1st Place (team), 2000.
- Khwarizmi Youth Festival:
 - 2nd Place, Fundamental Research, 2019. (Nasrin Sadri)
 - 2nd Place, Fundamental Research, 2014. (Fahimeh Mokhtari)
 - 3rd Place, Fundamental Research, 2007. (Ali Pourmiri)
- Mathematics Competition for University Students:
 - 3rd Place (team), 2 Silver, and 2 Bronze Medals, 2016.
 - 2nd Place (team), 3 Silver, and 1 Bronze Medals, 2015.
 - 2nd Place (team), 2 Silver, and 2 Bronze Medals, 2014.
 - 2nd Place (team), 1 Gold, and 4 Silver Medals, 2013.
 - 3rd Place (team), 3 Silver, and 2 Bronze Medals, 2012.
 - 1 Silver and 1 Bronze Medals, 2011.
 - 2 Bronze Medals, 2010.
 - 3 Bronze Medals, 2009.
 - 1 Silver Medal, 2007.
 - 2nd Place (team), 3 Silver, and 1 Bronze Medals, 2006.
 - 3rd Place (team), 2 Silver, and 2 Bronze Medals, 2005.
 - 1 Bronze Medal, 2004.
 - 1st Place (team), 3 Gold Medals, 1995.
- International Mathematics Competition for University Students:
 - 1 Gold, and 1 Bronze Medals, 1 Honorable Mention, 2018. (Bulgaria)
 - 1 Silver, and 1 Bronze Medals, 2 Honorable Mentions, 2017. (Bulgaria)
 - 1 Silver, and 2 Bronze Medals, 2 Honorable Mentions, 2016. (Bulgaria)
 - 2 Bronze Medals, 3 Honorable Mentions, 2015. (Bulgaria)
 - 1 Gold, 1 Silver, and 2 Bronze Medals, 1 Honorable Mention, 2014. (Bulgaria)
 - 1 Silver, and 2 Bronze Medals, 1 Honorable Mention, 2013. (Bulgaria)

- 2 Bronze Medal, 3 Honorable Mention, 2012. (Bulgaria)
- 1 Silver, and 1 Bronze Medals, 3 Honorable Mentions, 2010. (Bulgaria)
- 1 Silver, and 3 Bronze Medals, 1 Honorable Mention, 2007. (Bulgaria)
- 1 Bronze Medal, 4 Honorable Mentions, 2006. (Ukraine)
- 3 Bronze Medals, 2 Honorable Mentions, 2005. (Bulgaria)
- Scientific Olympiad in Mathematics for University Students:
 - 1st Place, 2012. (Mazyar Ghani)
 - 2nd Place, 2007. (Rasoul Etesami)
 - 2nd Place, 2001. (Rasoul Azizi)
 - 2nd Place, 1997. (Hosein Abedi)
- Scientific Olympiad in Statistics for University Students:
 - 2nd Place, 2016. (Meysam Shafiei)
 - 2nd Place, 2015. (Ahmad Reza Hajiheydari)
 - 2nd Place, 2014. (Shared: Amir Abbas Mofidian & Maryam Sabet Rasekh)
 - 1st Place, 2007. (Omid Ali Agha Babaei)

We would like to express our sincere thanks to the faculty members at the Department of Mathematical Sciences, and our colleagues at International Scientific Cooperation Center (ISCC) for sincere assistance in producing this prospectus.

 Tel: **+98 (31) 33912505-6**
 Fax: **+98 (31) 33912511**
 Email: **international@iut.ac.ir**
 Website: **www.international.iut.ac.ir/en**

 Instagram: **IUT_International**
 Telegram: **IUT_International**
 LinkedIn: **Isfahan University of Technology**

