

Master's Study Programme Mathematical Sciences

Why Mathematical Sciences ?

Mathematics is the **foundation** of all natural sciences and an indispensable tool in the social sciences and economics. As the theoretical core of computer science, it is also exerting **growing influence in the fields** that will shape the 21st century.



Modern
equipment

General information

Duration: 2 years

Mode of study: full-time

Language of study: Slovene, English

Degree awarded: Master's degree in Mathematics

Location: Koper



Laboratory and
fieldwork
research

Benefits of the study at UP FAMNIT?

- A broad range of in-depth knowledge that stands the test of time and provides **excellent career opportunities** across diverse professions
- Mathematicians are among the most sought-after professionals in the **natural sciences, technology, and beyond**
- Opportunities to participate in research projects within the department and the **Andrej Marušič Institute** of the University of Primorska
- An **international team** of professors and researchers
- Opportunities to **actively engage** in research and international exchange programmes
- Study in a **pleasant Mediterranean environment** with a vibrant student life and a wide range of extracurricular activities



International
exchanges



Various
extracurricular
activities

My career opportunities

Graduates may pursue careers in:

- Computer science and information technology (software companies, technology firms, and other organisations)
- Statistics (e.g. national statistical offices, insurance companies, and banks)
- Financial mathematics (insurance companies, banks, stock exchanges, and brokerage firms)
- Game theory and probability applications, including the gaming and lottery sector
- Education
- Cryptography and cybersecurity (including government institutions and the public sector)

Graduates may also teach mathematics in secondary schools after completing the required teacher education programme. Alternatively, they may pursue careers beyond mathematics, as the analytical thinking, problem-solving, and quantitative skills developed during the programme are highly valued across a wide range of professions.

What do students think about studying at UP FAMNIT?



I have always enjoyed puzzles and brainteasers. Studying Mathematics has helped me develop my abstract thinking and problem-solving skills while also providing valuable guidance for my future career. Our professors are true mentors—always approachable and open to new questions and ideas—which is essential for understanding complex mathematical concepts.

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Course structure

1st year

3x Basic Course
3x Internal Elective Course
2x External Elective Course
Seminar I
Seminar II

2nd year

3x Internal Elective Course
External Elective Course
Seminar III
Seminar IV
Master's Thesis

Basic Courses

Selected Topics in Algebra (1)
Selected Topics in Analysis (1)
Selected Topics in Discrete Mathematics (1)
Selected Topics in Financial Mathematics (1)
Selected Topics in Cryptography (1)
Selected Topics in Mathematical Statistics (1)
Molecular Modeling Course
Selected Topics in Functional Analysis
Mathematical Practicum

