UP Faculty of Mathematics, Natural Sciences and Information Technologies (FAMNIT)

Undergraduate Study Programme Mathematics in Economics and Finance

Why Mathematics in Economics and Finance ?

The science of economics recently underwent a distinct shift from **classical social science to so-called applied mathematics**. Therefore, the most complex scientific problems as well as most practical and everyday problems in the economy are based primarily on the **mastery of computer science and mathematical analysis.**

Modern equipment

Research and fieldwork

International exchanges

Various extracurricular activities

General information

Duration: 3 years
Mode of study: full-time
Language of study: Slovene
Degree awarded: "diplomirani finančni matematik (UN)" equiv. to B.Sc. in Finance Mathematics
Location: Koper
Admission requirements: completed matura examination
(More about the requirements on: www.famnit.upr.si.)

Benefits of the study at UP FAMNIT?

- Relatively **small and young collective**; easier adaption to your expectation and needs
- **Quality in preparation for postgraduate study** in the field of economy and mathematics
- **Flexibility** in elective courses selection
- Possibilities to be actively involved in **research projects and international exchange**
- The study provides a pleasant **Mediterranean environment** with an active student life and many extra-curricular activities

My career opportunities?

- In banks and insurance companies,
- in stock exchanges and brokerage houses,
- in gaming,
- in computer companies,
- in pension and health funds,
- in public administration and agencies,
- in the logistics sector,
- in other areas where fundamental knowledge of economics and finance and analytical skills are required, e.g. in the strategic and logistics departments of larger companies,
- in the industrial sector, e.g. bioinformatics and other biotechnological sectors,
- in mechanical engineering.

Graduates can choose a professional career that is fundamentally not tied to the field of study completed, as the competencies acquired by each graduate of this program are also qualities that leaders in many fields should have.

What do students think about studying at UP FAMNIT?

Quantitative analytical skills are crucial in making financial and other economic decisions. Therefore mathematicians have always been sought by employers in the financial sector and others. The study programme provides various skills in mathematics, finance, economy, informatics and programming.

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Course structure

1st year

Algebra I – Matrix Calculus
Algebra II – Linear Algebra
Analysis I – Foundations of Analysis
Analysis II – Infinitesimal Calculus
Discrete Mathematics I – Set Theory
Discrete Mathematics II – Combinatorics
Mathematical Topics in English
Mathematical Practicum
Computer Science
Computer Practicum

2nd year

Analysis III – Functions of Many Variables
Algebra III – Abstract Algebra
Probability
Introduction to Numerical Calculations
Microeconomics
Macroeconomics
Finance
Computer Science II
2x External Elective Course

3rd year

Financial Mathematics
Stochastic processes I
Game Theory
Statistics
Econometrics
Fundamentals of Insurance
Modelling in Macroeconomics
Financial Topics in English
Internal Elective Coursel
External Elective Course

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