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

Doctoral Study Programme
Mathematical Sciences

Why Mathematical Sciences ?

The programme prepares researchers and academics for careers in **advanced scientific research**. Before enrolling, each student selects a supervisor to define their research path and address **current open problems in mathematics**. During their studies, doctoral candidates engage with the international research community through conferences, research visits, and academic events. They also gain **teaching experience** by working with students. The programme aims to equip doctoral candidates with the skills for independent, internationally competitive research and to apply advanced mathematical knowledge to **solving complex problems** in science, industry, and society.

Modern equipment

Laboratory and fieldwork research

Networking

International exchanges

Recognized lecturers and scientists

General information

Duration: 3 years

Mode of study: part-time

Language of study: Slovene, English

Degree awarded: Doctoral degree

Location: Koper

Admission requirements: Completed Master's degree (second cycle) (More about the requirements on: www.famnit.upr.si.)

Benefits of the study at UP FAMNIT?

- The programme is **individually** tailored to each student
- **Active participation** in international conferences and research visits
- and other academic activities.
- Publication of research papers in **prestigious international scientific journals** during the course of study
- **Internationally recognised** professors and researchers
- Study in a welcoming **Mediterranean** environment.

My **career** opportunities

Opportunities to work on challenging national and international research projects, leading to careers at universities, research institutes, and other research and development organisations.

Advanced knowledge of both theoretical and applied mathematics opens a wide range of career opportunities beyond academia, including in insurance companies,

- banks,
- investment firms,
- statistical offices, and
- other organisations seeking professionals with strong analytical skills, critical thinking, and sound decision-making abilities.

What do **professors** think about the programme?

The PhD Programme in Mathematical Sciences at the University of Primorska provides advanced training in mathematical research through a rigorous, research-oriented curriculum and close collaboration with experienced faculty. The program fosters independent scientific inquiry in a supportive international environment, preparing graduates for careers in academia, research, and industry.

-Štefko Miklavčič-

Course structure

1st year

Elective course – Advanced Mathematical Course I
Elective course – Advanced Mathematical Course II
Individual Research Work
Seminar

2nd year

Individual Research Work
Doctoral Dissertation
Seminar

3rd year

Seminar
Doctoral Dissertation

Advanced Mathematical Courses (AMC)

AMC – Algebra I
AMC - Algebra II
AMC – Analysis I
AMC – Analysis II
AMC – Discrete Mathematics
AMC – Discrete Mathematics II
AMC – Financial Mathematics I
AMC – Financial Mathematics II
AMC – Cryptography I
AMC – Cryptography II
AMC – Computing Intensive Methods and Applications I
AMC – Computing Intensive Methods and Applications II
AMC – Statistics I
AMC – Statistics II

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