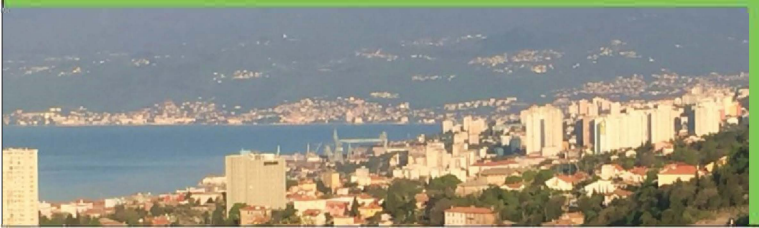
The Department of Mathematics, University of Rijeka, is a member institution of University of Rijeka which does research and professional work in the field of mathematics, organizes study programmes in mathematics and assures the development of the personnel in mathematics at the University of Rijeka.

The Department is divided into divisions:

- Division of Algebra and Number Theory
- Division of Discrete Mathematics
- Division of Mathematical Analysis



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DEPARTMENT OF MATHEMATICS

Discrete Mathematics and Its Applications

Projekt je sufinancirala Europska unija iz Europskog socijalnog fonda

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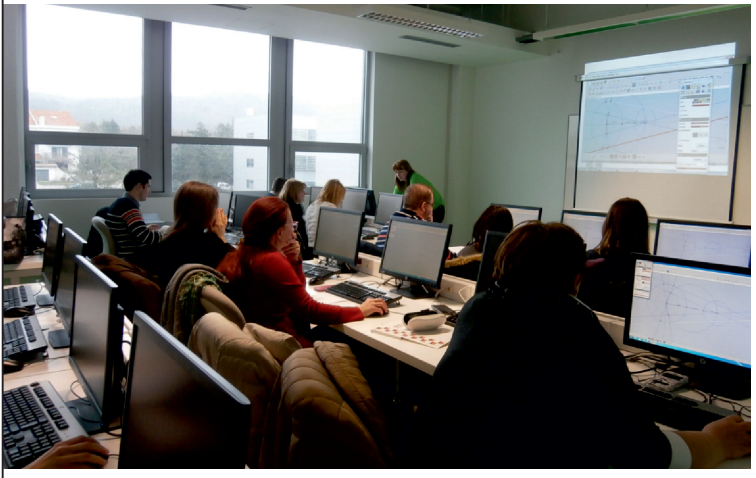

Discrete Mathematics and Its Applications

www.math.uniri.hr/en/dma

University study course

Discrete Mathematics and Its Applications

The level of the study program:
- graduate

Type of study:
- full-time study

Duration:
- 2 years (4 semesters)

Credits:
- 120 ECTS

Language:
- English

Academic/professional title awarded upon completion of study:
Master of Science in Mathematics

Required educational level for enrollment:
- Bachelor's degree in mathematics or equivalent

Discrete mathematics is a branch of mathematics that has many applications in other fields of science and economy. In this study program students will, among other things, acquire knowledge from graph theory, optimization, cryptography, coding theory and design of experiments.

Acquired knowledge in this study is very applicable in the economy; graph theory has broad applications, from telecommunications to the design of road networks, coding theory and cryptography is used in everyday communication.

Acquired knowledge from the optimization and design of experiments provides employment in several branches of economy, for example, in companies that need to test finished products or prototypes.

Moreover, after completing this study, masters of mathematics are eligible to enroll PhD study programmes in Croatia, as well as appropriate doctoral studies abroad.