

Characteristics of the study program

- Title of the study program: **Mathematics in computer science**
- Study field **9.1.1: Mathematics**
- Degree of the study: **Master of science**
- Duration of study: **2 academic years**
- Degree: **magister (Mgr.)**
- Guarantor of the program: **prof. RNDr. Roman Nedela, DrSc.**

Scope of the study program

Units of the program (lectures, labs, seminars, etc.) cover all the core subjects of Mathematics through obligatory and elective courses. Graduates of master-of-science (Mgr.) level should be acquainted with basics of advanced mathematics, upon which they can build in their respective professions. Besides the mathematics-oriented subjects, which form the core of the study, students enroll in applied computer science courses. Stress is put also on implementation of mathematics-based algorithms, mainly in the programming language Java.

Profile of a graduate

The program aims at deepening and broadening of knowledge and skills in computer science and informatics (algorithms and their implementation, architecture of systems, coding, cryptography, optimization etc). A graduate should find his/her position in research institutes, as well as in companies, where s/he can design and implement algorithms, develop information processing systems, provide an expertise in applied mathematics etc.

Requirements on applicants

An applicant is required to have completed the Bachelor-degree in mathematics, or computer science. Bachelors in other subjects are considered on case-by-case basis. All applicants must pass entrance exam.

Faculty at the study program

Lectures, seminars and labs are held by selected lecturers from the Department of Mathematics FPV UMB, from the Institute of Computer Science and Mathematics and from the Mathematical Institute of the Slovak Academy of Sciences. Master theses are devoted to areas of active research in theoretical computer science as well as to applications-oriented problems.

Lecturers:

prof. RNDr. Roman Nedela, DrSc.	(http://www.savbb.sk/~nedela/)
prof. RNDr. Beloslav Riečan, DrSc.	(http://km.fpv.umb.sk/index.php/staff/113-riecan-eng)
prof. RNDr. Ľubomír Snoha, DrSc. DSc.	(http://km.fpv.umb.sk/index.php/staff/176-snoha-eng)
prof. RNDr. Gejza Wimmer, DrSc.	(http://km.fpv.umb.sk/index.php/staff/177-wimmer-eng)
doc. Mgr. Marián Grendár, PhD.	(http://km.fpv.umb.sk/index.php/staff/178-grendar-eng)
doc. RNDr. Miroslav Haviar, CSc.	(http://www.fpv.umb.sk/~mhaviar/)
doc. RNDr. Vladimír Janiš, CSc.	(http://km.fpv.umb.sk/index.php/staff/203-janis-eng)
doc. RNDr. Peter Maličký, CSc.	(http://km.fpv.umb.sk/index.php/staff/180-malicky-eng)
Mgr. Ján Karabáš, PhD.	(http://www.savbb.sk/~karabas/)
RNDr. Vladimír Špitalský, PhD.	(http://km.fpv.umb.sk/index.php/staff/185-spitalsky-eng)

Application form should be sent: jarmila.kmetova@umb.sk till 28. February 2011 for master study and for doctoral study till 31. May 2011. Entrance exam fee 35 € must be paid on:

account number 7000095590/8180 account symbol for master study: 10500203 and for doctoral study: 10520703,

IBAN: SK758180000007000095590, SWIFT: SUBASKBX,

Matej Bel University, Národná 12, 974 01 Banská Bystrica

Fees: 2000€ per ac. year

This study program is not subject to payment of any fee for students who are citizens of EU member states. Non-EU citizens are required to pay 2 000 € per curriculum.

Fee does not cover living expenses at the place. Students may apply for accommodation at the dormitories of Matej Bel University (see <http://www.umb.sk-Accom. And Catering Possib.>)

Contact:

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head of Math Department
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See also <http://km.fpv.umb.sk/index.php/english> for more information.