Matej Bel University

- Banská Bystrica, Slovak Republic

Vladimír Janiš

Where we are

Our city

Surroundings in summer

Surroundings in winter

Faculties at Matej Bel University

- economy

- law

- political science and international relations

- philosophy

- education

- natural science

Project team

- Vladimír Janiš, Dept. of Mathematics

- Romana Schubertová, Dept. of Biology

- Ingrid Turisová, Dept. of Biology

- Martin Hruška, Dept. of Physics

- Daniela Guffová, Fac. of Education

Faculty of Natural Sciences

Fac. of Nature Science Departments

- biology

- chemistry

- computer science

- ecology

- geography and geology

- mathematics

- physics

- technical sciences

Programs at FNS MBU

- education (age 10-18): two subject teaching (Bc., Mgr., PhD.)

- environmental chemistry (Bc., Mgr.)

- forensic and criminalistic chemistry (Bc., Mgr.)

- applied geology (Bc., Mgr.)

- geography (Bc., Mgr.)

- systems ecology (Bc., Mgr., PhD.)

- mathematics (Bc., Mgr., PhD.)

- applied computer science (Bc., Mgr.)

Structure of a study program Mathematics Education

- Bc degree - common base - obligatory

    - General and educational psychology (4)

    - Philosophic and social aspects of education (4)

    - Philosophic and social aspects of learning (4)

    - General methodology (4)

Structure of a study program
Mathematics Education

- Bc degree - common base - optional (at least 2 subjects)

  - Psychology of a personality (3)

  - Analytic reading and writing (3)

  - Pedagogical diagnostics (3)

  - Informatics for teachers (3)

  - Pedagogy of outdoor activities (3)

  - Health Psychology (3)

  - Educational philosophy (3)

  - Digital technologies at school (3)

Structure of a study program Mathematics Education

- Bc degree - Mathematics - obligatory

  - Sequences and functions (3)

  - Equations and inequalities (3)

  - Calculus 1 (4)

  - Linear Algebra 1 (4)

  - Calculus 2 (3)

  - Planimetry (3)

  - Discrete Mathematics (3)

  - Calculus 3 (4)

Structure of a study program Mathematics Education

- Bc degree - Mathematics - optional (at least 12 credits)

  - Sequences and functions - seminar (2)

  - Introduction to limit processes (2)

  - Equations and inequalities - seminar (2)

  - Calculus 1 - seminar (2)

  - Linear Algebra 1 -seminar (2)

  - Calculus 2 - seminar (2)

  - Planimetry - seminar (2)

  - Combinatorics - seminar (2)

Structure of a study program Mathematics Education

- Bc degree - Mathematics - optional (at least 12 credits)
  - Linear Algebra 2 (2)
  - Calculus 3 - seminar (2)
  - Stereometry - seminar (2)
  - Numerical Mathematics (4)
  - Inequalities (3)
  - Algebra 1 - seminar (3)
  - Number Theory - seminar (2)
  - Analytical Geometry - seminar (2)
  - Instrumental Course (4)

Structure of a study program Mathematics Education

- Master degree - common base - obligatory

  - Sociology of education and social pathology (5)

  - Research methodology in education (5)

  - Practical placement - observation (2)

  - Practical placement - teaching (2)

  - Continual practical placement (2)

Structure of a study program Mathematics Education

- Master degree - common base - optional (at least 2 subjects)

  - Methodology (4)

  - Special and inclusive pedagogy (3)

  - Mental development pathology (3)

  - Modern rhetorics (3)

  - Management and legislation in education (3)

  - Emotional and social personal development (3)

  - Man, culture, society (3)

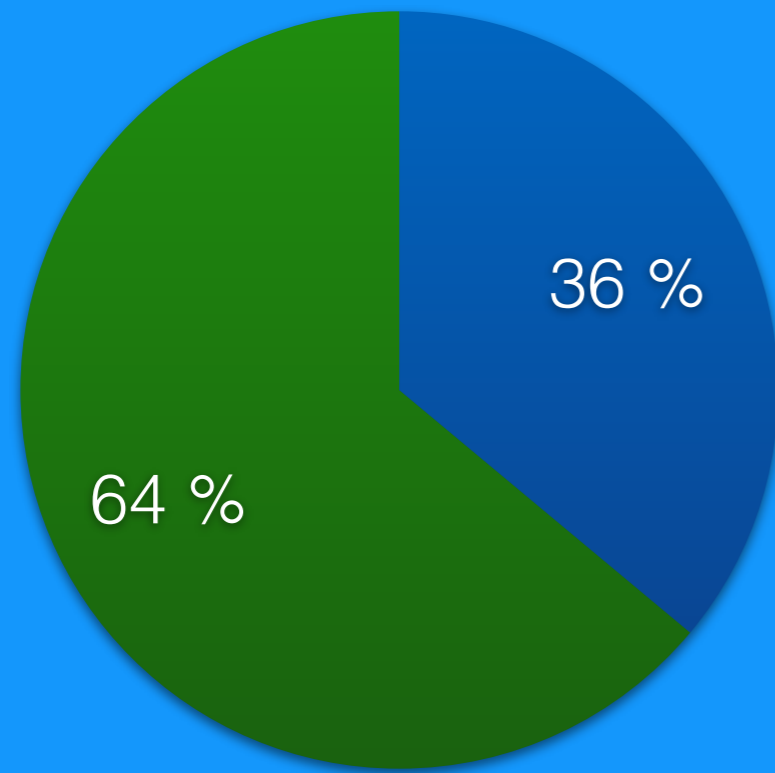 - Academic writing (3)

  - Mediation (3)

Structure of a study program Mathematics Education

- Master degree - Mathematics - obligatory

  - Analytic Geometry 3 (3)

  - Set theory and Theoretical Arithmetics (3)

  - Methodology of Mathematics and Problem Solving 1 (3)

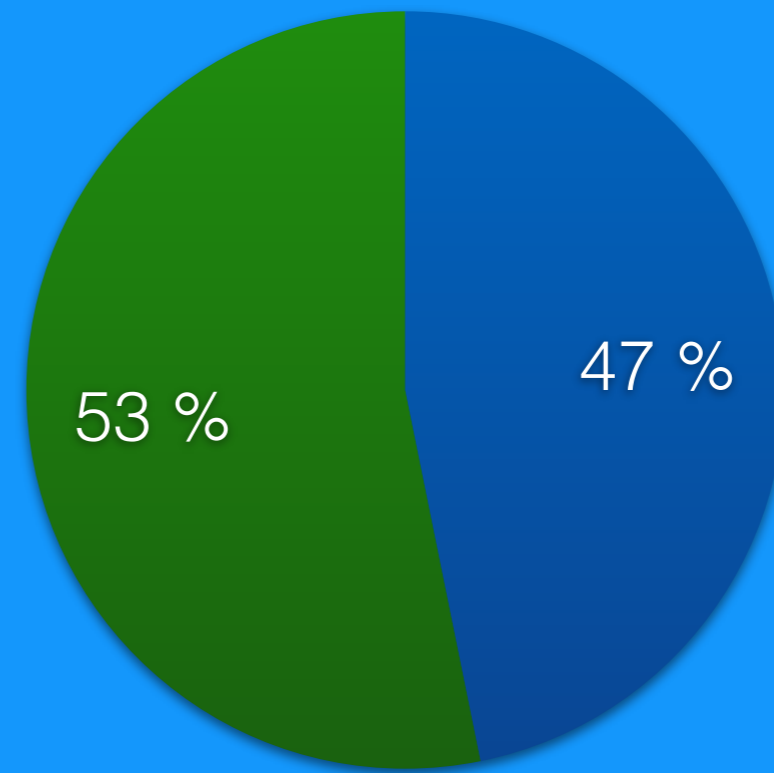 - Methodology of Mathematics and Problem Solving 2 (4)

Structure of a study program Mathematics Education

- Master degree - Mathematics - optional (at least 4 subjects)

    - Measure for teachers (3)

    - Extracurricular mathematics (3)

    - Financial Mathematics (3)

    - Functional Equations (3)

    - History of Mathematics (3)

    - ICT in schools (3)

    - Statistical methods in education (3)

    - Discrete mathematics 2 (3)

"Education" vs "Proffesional"

Bachelor

Master