



University of Maribor

# Faculty of Natural Sciences and Mathematics

Department of

**Biology**



Department of

**Physics**



Department of

**Mathematics** and **Computer Science**

Department of

**Technical Education**



**www.fnm.um.si**

 <https://www.facebook.com/FNM.Maribor>

 [dekanat.fnm@um.si](mailto:dekanat.fnm@um.si)

 Faculty of Natural Sciences and Mathematics  
Koroška cesta 160, 2000 Maribor, Slovenia

# Department of Physics

## STUDY PROGRAMS

- ▶ BACHELOR PROGRAM – PHYSICS (3 years, 180 ECTS)
  - ◆ UNIFIED BACHELOR + MASTERS PROGRAM – TEACHER OF PHYSICS AND ....\* (5 years, 300 ECTS)  
\* Mathematics, Chemistry, Biology, Design and Technology, Computer Science
  - MASTERS PROGRAM – PHYSICS (2 years, 120 ECTS)
  - PhD PROGRAM – PHYSICS, BIOPHYSICS, EDUCATIONAL PHYSICS (3 years, 180 ECTS)
- *theory and application oriented programs*
  - *involvement of students in research and R&D projects already at bachelor and masters level*
  - *innovative and interdisciplinary elective courses*
  - *possibility of internship and student exchange*

## RESEARCH AREAS

- Physics of Complex Systems
- Soft Matter Physics
- Biophysics
- Applied Physics
- Physics Education



ESSENTIAL SCIENCE INDICATORS - THOMSON REUTERS:

„The University of Maribor has entered the top 1% of institutions in the field of Physics - and it did so with the highest number of citations.“

<http://archive.sciencewatch.com/inter/ins/08/08mayMaribor/>

[www.fizika.fnm.um.si](http://www.fizika.fnm.um.si)

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# Department of Mathematics and Computer Science

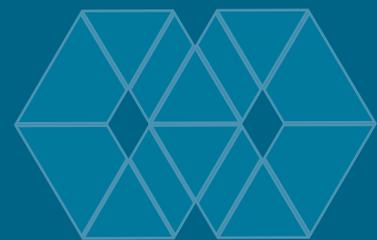
## STUDY PROGRAMS

- ▶ **BACHELOR PROGRAM – MATHEMATICS** (3 years, 180 ECTS)
- ◆ **UNIFIED BACHELOR + MASTERS PROGRAM – TEACHER OF MATHEMATICS AND ....\***; **TEACHER OF COMPUTER SCIENCE AND ....\***  
\* Mathematics, Computer Science, Biology, Physics, Chemistry, Design and Technology (5 years, 300 ECTS)
- **MASTERS PROGRAM – MATHEMATICS** (2 years, 120 ECTS); **EDUCATIONAL MATHEMATICS** (2 years, 120 ECTS)
- **PhD PROGRAM – MATHEMATICS** (3 years, 180 ECTS)

- *educating experts with knowledge of mathematics and computer science to work in the economy, financial sector and research institutes*
- *educating mathematicians, future teaching assistants and university professors*
- *educating teachers of mathematics*
- *educating teachers of computer science*

## RESEARCH AREAS

- Algebra
- Applied Mathematics
- Differential Equations
- Discrete Mathematics
- Geometry
- Mathematics Education
- Computer Science Education and E-learning
- Topology



WE COUNT ON YOU

<http://matematika-racunalnistvo.fnm.uni-mb.si>



Faculty of Natural Sciences and Mathematics  
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# Department of **Biology** and **Chemical Education**

## STUDY PROGRAMS

- ▶ **BACHELOR PROGRAM – BIOLOGY** (3 years, 180 ECTS)
  - ▶ **BACHELOR PROGRAM – ECOLOGY WITH NATURE CONSERVATION** (3 years, 180 ECTS)
  - **MASTERS PROGRAM – BIOLOGY AND ECOLOGY WITH NATURE CONSERVATION** (2 years, 120 ECTS)
  - **UNIFIED BACHELOR + MASTERS PROGRAM – TEACHER OF BIOLOGY AND ....\***; **TEACHER OF CHEMISTRY AND ....\***  
\* Biology, Chemistry, Mathematics, Physics, Design and Technology, Computer Science (5 years, 300 ECTS)
  - **PhD PROGRAM – ECOLOGICAL SCIENCES** (3 years, 180 ECTS)
- *large number of different field excursions*
  - *involvement of students in research and R&D projects already at bachelor and masters level*
  - *innovative and interdisciplinary elective courses*
  - *flexible MSc and PhD programme structure*
  - *possibility of internship and student exchange*

## RESEARCH AREAS

- **Vegetation Ecology of Grasslands, Flora of Slovenia**
- **Coastal Habitats, Archaeobotany, Landscape ecology**
- **Zoology, Animal Behaviour**
- **Basic and Applied Ecology**
- **Biodiversity and Nature Conservation**
- **Microbiology**
- **Plant and Animal Physiology**
- **Biology and Chemistry Didactics**



*The study of life* at the Department of Biology UM embraces many areas of biological interest to expand our knowledge of biodiversity and its conservation.

<http://biologija.fnm.uni-mb.si>



# Department of Technical Education

## STUDY PROGRAMS

- UNIFIED BACHELOR + MASTERS PROGRAM – TEACHER OF DESIGN AND TECHNOLOGY AND ....\* (5 years, 300 ECTS)  
\* Biology, Chemistry, Computer Science, Mathematics, Physics
- MASTERS PROGRAM – EDUCATIONAL DESIGN AND TECHNOLOGY – SINGLE MAJOR (2 years, 120 ECTS)
- PhD PROGRAM – EDUCATION IN TECHNOLOGY AND ENGINEERING (3 years, 180 ECTS)
- education of design and technology teachers*
- the link between theory and practice in pedagogical terms*
- innovative and interdisciplinary elective courses*
- possibility of internship and student exchange*



## RESEARCH AREAS

- Development of Teaching Models
- Cognitive Neuroscience and Philosophy of Mind
- Intelligent Tutoring Systems and Smart Learning Environments
- Integration of Technical Sciences and Knowledge Transfer to Education

[www.tehnika.fnm.uni-mb.si](http://www.tehnika.fnm.uni-mb.si)

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