
Magister profesor računalništva in .../magistrica profesorica računalništva in ...

Selected qualifications

Name of qualification	Magister profesor računalništva in .../magistrica profesorica računalništva in ...
Translated title (no legal status)	Master of Arts in teaching computer science and ...
Type of qualification	Diploma druge stopnje
Category of qualification	Izobrazba
Type of education	Master's education
Duration	2 years
Credits	120 credits

Admission requirements

- A completed first-cycle study programme consisting of at least 180 credits in the field of computer science for education; or
- a completed first-cycle study programme consisting of at least 180 ECTS credits in the field of computer science and information technology, if prior to enrolment the candidate has completed course units essential for further study, totalling 14 ECTS credits; or
- a completed first-cycle study programme consisting of at least 180 ECTS credits in a scientific, mathematical or technical field, if prior to enrolment the candidate has completed course units essential for further study, totalling 30 ECTS credits; or
- a completed professional higher education programme in computer science and information technology adopted before 11 June 2004, if prior to enrolment the candidate has completed course units essential for further study, totalling 14 ECTS credits; or
- a completed professional higher education programme in the field of the natural sciences, mathematics or engineering adopted before 11 June 2004, if prior to enrolment the candidate has completed course units essential for further study, totalling 30 ECTS credits.

ISCED field

Field
Izobraževalne znanosti in izobraževanje učiteljev

ISCED subfield

subfield izobraževanje učiteljev s predmetno specializacijo

Qualification level

SQF 8
EQF 7
Second level

Learning outcomes

The qualification holder will be able to:
(general competences)

- demonstrate understanding and application of curriculum theories and basic didactic principles,
- analyse, synthesise and envisage solutions to technical and didactic problems,
- integrate contents in an interdisciplinary manner,
- apply knowledge in practice for the resolution of various problems,
- think creatively and encourage creative thinking in students,
- demonstrate a research approach and problem-solving orientation and responsibly direct own professional development in the process of lifelong learning,
- work creatively and autonomously,
- demonstrate knowledge and understanding of the development processes, differences and needs of individuals or groups,
- demonstrate knowledge and understanding of diversity and multiculturalism and observe the

principle of non-discrimination in work,

- use a research approach both in the discipline and in education,
- use ICT in teaching and other professional work and develop information literacy in students,
- cross-curricular planning and implementation of lessons together with teachers of other subjects,
- conduct technical dialogue, participate in international projects and design and manage projects,
- demonstrate an excellent capacity to face the challenges of innovative approaches to learning, e.g. e-education and combined education,
- reflect on and evaluate the results of own work,
- demonstrate good knowledge of own profession and regulations governing the work of schools,
- apply previously acquired theoretical knowledge in practical cases,

(subject-specific competences)

- provide adequate technical literacy to students in computing language,
- demonstrate knowledge and application of technical terminology from technical and theoretical subjects in the teaching of computer science in primary and secondary schools,
- demonstrate professional proficiency in the syllabuses, contents and concepts of elementary and secondary school computer science in order to create learning conditions that enable students to build high-quality knowledge (durability, transferability, integrity),
- demonstrate the highest level of proficiency in formulating objectives, planning and implementing teaching in computer science and evaluating knowledge in the light of a selected taxonomy and in order to create an encouraging environment for the balanced development of conceptual, procedural, problem-based and communication-based knowledge in students,
- demonstrate an excellent capacity to evaluate, select and use existing learning materials, teaching aids and ICT in the teaching of computer science (various software, interactive whiteboards, internet, etc.),
- demonstrate the highest level of proficiency in the specific organisational forms of teaching computer science: design of project days, leading study circles, mentoring research projects,
- demonstrate knowledge of contemporary achievements and trends in the teaching of computer science and incorporate new knowledge into own work in a critical and considered manner,
- cooperate with other educational institutions in research in the field of the teaching of computer science and the training of future computer science teachers.

Assessment and completion

Examination performance is scored as follows: 10 (excellent); 9 (very good: above-average knowledge but with some mistakes); 8 (very good: solid results); 7 (good); 6 (adequate: knowledge satisfies minimum criteria); 5-1 (inadequate). In order to pass an examination, a candidate must achieve a grade between adequate (6) and excellent (10).

Progression

A condition for progression to the second year is the completion of at least 21 ECTS credits. The subjects taken must include Didactics of computer science I and Practical training for teaching computer science I. The above conditions for progression relate to the second-cycle two-subject teacher training programme Computer science for education. In order to progress to a higher year, students must also meet the conditions envisaged by the other selected two-subject study programme.

Transitions

Third-cycle doctoral study programmes (SQF level 10)

Condition for obtaining certificate

Students must complete all requirements defined by the study programme in order to complete their studies.

Awarding body

University of Maribor, Faculty of Natural Sciences and Mathematics

URL

http://www.fnm.um.si/index.php?option=com_content&view=article&id=35&Itemid=34&lang=en
