

Magister profesor tehnike in .../magistrica profesorica tehnike in ...

Selected qualifications

Varnostnik nadzornik/varnostnica nadzornica 

Name of qualification Magister profesor tehnike in .../magistrica profesorica tehnike in ...

Translated title (no legal status) Master of Arts in teaching engineering and ...

Type of qualification Diploma druge stopnje

Category of qualification Izobrazba

Type of education Master's education

Duration 2 years

Credits 120 credits

- A completed first-cycle study programme consisting of at least 180 credits in the field of engineering for education; or
- a completed first-cycle study programme consisting of at least 180 ECTS credits in the field of engineering, if prior to enrolment the candidate has completed course units essential for further study, totalling 14 ECTS credits. Candidates complete these course units by sitting differential examinations; or
- a completed first-cycle study programme consisting of at least 180 ECTS credits in the field of the natural sciences, if prior to enrolment the candidate has completed the course units that are essential for further study. These course units consist of 24 ECTS credits in technical subjects and 14 ECTS credits in teacher training subjects; or
- a completed professional higher education programme in the field of engineering adopted before 11 June 2004, if prior to enrolment the candidate has completed course units essential for further study, totalling 14 ECTS credits. Candidates complete these course units by sitting differential examinations; or
- a completed professional higher education programme in a scientific field adopted before 11 June 2004, if prior to enrolment the candidate has completed the course units that are essential for further study. These course units consist of 24 ECTS credits in technical subjects and 14 ECTS credits in teacher training subjects.

Admission requirements

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,
- conduct technical dialogue, participate in international projects and design and manage projects,
- 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)

- demonstrate advanced knowledge in the field of modelling and construction,
- demonstrate knowledge and application of modern numerical procedures for the dimensioning of mechanical components and structures,
- demonstrate knowledge and application of conventional and modern materials in the planning and manufacture of products,
- demonstrate knowledge and application of conventional and modern processing technologies (CAM, CIM, CQM, robotics, etc.),
- demonstrate knowledge and application of methods for programming modern computer-controlled machines and devices,
- demonstrate knowledge and application of modern methods for planning processes and systems,
- demonstrate knowledge and application of calculations, financial calculations and financial analysis in the design of products,
- organise and lead education.

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 completed must include Didactics of engineering I and Practical training for teaching engineering I. 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=403&Itemid=34&lang=en
