

# Doktor znanosti/doktorica znanosti s področja tehnike

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## Selected qualifications

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

<b>Name of qualification</b>	Doktor znanosti/doktorica znanosti s področja tehnike
<b>Translated title (no legal status)</b>	Doctor of Philosophy in the field of technology
<b>Type of qualification</b>	Doktorat
<b>Category of qualification</b>	Izobrazba
<b>Type of education</b>	Doctoral education
<b>Duration</b>	3 years
<b>Credits</b>	180 credits

## Admission requirements

- A completed second-cycle study programme; or
- a completed academic higher education programme adopted before 11 June 2004; or
- a completed professional higher education programme, adopted before 11 June 2004, and a study programme to obtain a specialised qualification; candidates must complete additional study requirements totalling 60 ECTS prior to enrolment; or
- a completed study programme leading to professions regulated by EU directives, or another integrated master's programme consisting of 300 ECTS credits.

## ISCED field

Field  
Izobraževalne znanosti in izobraževanje učiteljev

## ISCED subfield

subfield izobraževanje učiteljev s predmetno specializacijo

## Qualification level

SQF 10  
EQF 8  
Third level

## Learning outcomes

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

- think systematically,
- master critical and self-critical assessment,
- work cooperatively in a group in the local and international environment,
- apply theoretical knowledge to the resolution of practical problems,
- demonstrate thorough knowledge of experimental and other methods for proving scientific theories,
- search for various sources of knowledge in the resolution of technical problems,
- demonstrate ethical reflection and a commitment to professional ethics in the fields of technology and education,
- demonstrate initiative and independence in decision making and in managing technical and scientific projects,
- present the results of scientific research at scientific and professional conferences, and in scientific and professional journals,

(subject-specific competences)

- demonstrate thorough understanding of the educational system in the field of technology in various time periods and different educational systems,
- demonstrate understanding of individual and group research work in the field of technology education,
- use information and communication technologies in the fields of technology for education,
- place scientific research methods in concepts and models of the education process with respect to technical subjects in elementary and secondary schools, and at faculties,
- demonstrate thorough knowledge of project work and lesson planning,
- master quality research in the fields of technology for education,

- master statistical methods in the fields of education and technology,
- master methodologies for planning, monitoring and evaluating results and achievements in the scope of research work.

## **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**

To progress to the second year, students must successfully complete all compulsory or elective first-year subjects totalling at least 30 ECTS credits and individual research work totalling 12 ECTS credits, in the scope of which the proposed topic of the doctoral dissertation is submitted. To progress to the third year, students must successfully meet all first-year study requirements totalling 60 ECTS credits and second-year study requirements totalling at least 45 ECTS credits (a total of 105 ECTS credits).

## **Condition for obtaining certificate**

Candidates 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/en/home/>

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