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# Magister znanosti/magistrica znanosti s področja kemijskega izobraževanja

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## Selected qualifications

### Name of qualification

Magister znanosti/magistrica znanosti s področja kemijskega izobraževanja

### Translated title (no legal status)

Master of Philosophy in the field of chemistry education

### Type of qualification

Magisterij znanosti/umetnosti

### Category of qualification

Izobrazba

### Type of education

Master's education

### Duration

2 years

### Credits

120 credits

## Admission requirements

A diploma in the field of chemistry for education or a diploma in chemistry or chemical technology or a diploma in the field of chemistry for education and another subject or a diploma in biochemistry or an analogous field at the Biotechnical Faculty, and the fulfilment of the following conditions:

- median test scores of at least very good at the undergraduate level,
- active knowledge of English.

## ISCED field

Field  
Izobraževalne znanosti in izobraževanje učiteljev

## ISCED subfield

subfield izobraževanje učiteljev s predmetno specializacijo

## Qualification level

SQF 9  
EQF 8  
Third level

## Learning outcomes

The qualification holder is able to:

- evaluate research methods and techniques relating to chemistry education,
- develop and optimise chemistry education methods with an emphasis on logic,
- demonstrate knowledge of strategies for developing new curricula for the needs of teaching chemistry at the elementary and secondary school levels,
- demonstrate thorough knowledge of and develop a system for evaluating the outcomes of chemistry education, with an emphasis on the external verification of knowledge,
- create interdisciplinary and original learning topics, and introduce students and pupils to the young researcher activity,
- enhance information methods and techniques (databases with a special emphasis on chemical and related databases, and databases relating to the field of chemistry education),
- uses techniques to present knowledge (relational systems, hierarchical systems, knowledge bases and inference mechanisms),
- analyse the mental-hygienic conditions of personal emotional development and take them into account and develop them in teaching work,
- understand the particularities and conditions of various forms of cognitive and socio-emotional teaching,
- understand the causes and meaning of individual differences between students,
- recognise developmental and learning difficulties, and adapt relationship with such students,
- identify and develop gifted students,
- identify and develop students' motivational factors, tendencies and interests.

## 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

Candidates may enrol in the second year when they meet requirements totalling at least 45 credits. During their studies, students must complete at least one written seminar paper and present it orally for each subject, which is a condition to sit for an examination. Before arguing their master's thesis, students must also write an article for publication in a magazine relevant to their master's thesis.

## Transitions

Third-cycle doctoral study programmes (SQF, level 10)

## Condition for obtaining certificate

Candidates must complete all prescribed requirements (i.e. have completed 120 credits) and successfully defend their master's thesis to complete their studies. Candidates must complete all prescribed requirements until 30.9.2016

## Awarding body

University of Ljubljana, Faculty of Natural Sciences and Engineering

URL

<https://www.ntf.uni-lj.si/en/>

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