SLOVENSKO
OGRODJE
KVALIFIKACIJ

Magister fizike/magistrica fizike

Selected qualifications

Name of qualification	Magister fizike/magistrica fizike
Translated title (no legal status)	Master of Science in physics
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 (Bologna, undergraduate) programme in the physics field (physics programme and meteorology with geophysics programme); or
• a completed first-cycle (Bologna) programme in another field, where prior to enrolment the candidate must complete course units essential for further study totalling 10–60 credits; or
• a completed professional higher education programme under an old programme in the field of physics (measurement techniques programme); or
• a completed professional higher education programme under the former programme in another field, if prior to enrolment the candidate has completed course units essential for further studies, consisting of 10–60 credits.

ISCED field

Field
Naravoslovje, matematika in statistika

ISCED subfield

subfield fizika

Qualification level

SQF 8
EQF 7
Second level

Learning outcomes

The qualification holder will be able to:

(general competences)

- demonstrate a capacity for abstraction and analysis of problems,
- collect, critically assess and synthesise data, measurements and solutions,
- identify the necessary data for the formulation of new knowledge,
- formulate new knowledge on the basis of existing theories or available data,
- apply knowledge in practice (particularly knowledge of modern technologies),
- make interdisciplinary connections between scientific findings,
- undertake autonomous professional work and work in an (international) group,
- communicate and impart technical information to the general public,

(subject-specific competences)

- demonstrate in-depth understanding of the physical laws of nature,
- make connections between the basic laws of nature and observable characteristics of the world,
- pose physical problems in a creative manner and analyse them,
- formulate physical problems mathematically,
- deduce the physical bases of practical problems,
- model problems,
- demonstrate mastery of advanced experimental skills in physics,

- critically evaluate the results of measurements and apply these in the building or upgrading of models,
- demonstrate understanding of the principles of operation of technological devices on the basis of basic laws,
- present physical methods and results in a manner adapted to a target audience (in Slovene and a foreign language),
- impart knowledge about physics.

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

In order to enrol in the second year, students must have completed two compulsory subjects in the stream in which they have enrolled and a total of at least 52 credits.

Transitions

Third-cycle doctoral study programmes (SQF level 10)

Condition for obtaining certificate

In order to complete the programme, students must complete all course units, consisting of 60 credits per year (a total of 120 credits). Students complete the programme when they obtain a passing grade for their master's thesis defence.

Awarding body

University of Ljubljana, Faculty of Mathematics and Physics

URL

https://www.fmf.uni-lj.si/en/