SLOVENSKO
OGRODJE
KVALIFIKACIJ

Magister inženir geotehnologije/magistrica inženirka geotehnologije

Selected qualifications

Name of qualification	Magister inženir geotehnologije/magistrica inženirka geotehnologije
Translated title (no legal status)	Master of Science in geotechnology
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 in geotechnology and mining; or
• a completed first-cycle programme in another engineering or science field (geology, civil engineering, mechanical engineering, chemistry, etc.) if prior to enrolment the candidate has completed course units essential for further studies, totalling 10–60 credits; or
• a completed professional higher education programme under an old geotechnology and mining programme; or
• a completed professional higher education programme under a former programme in another engineering or science field (geology, civil engineering, mechanical engineering, chemistry, etc.), if prior to enrolment the candidate has completed course units essential for further studies, consisting of between 10 and 60 credits.

ISCED field

Field
Tehnika, proizvodne tehnologije in gradbeništvo

ISCED subfield

subfield rudarstvo in drugo pridobivanje rudnin

Qualification level

SQF 8
EQF 7
Second level

Learning outcomes

The qualification holder will be able to:

(general competences)

- demonstrate broad general knowledge and knowledge of academic fields and scientific methods of work,
- define, research, understand and creatively address problems, principles and theories,
- critically read and understand texts, acquire knowledge and find sources autonomously,
- think critically, analytically and synthetically,
- transfer and apply theoretical knowledge into practice, resolve technical and work-related problems and make interdisciplinary connections,
- show a sense of professional and ethical responsibility towards superiors and subordinates in work processes,
- demonstrate scientific and research literacy, speak in public and communicate with customers,
- communicate, present and interpret knowledge and results,
- use foreign technical language in written and oral communication, communication in international and national scientific circles, in professional circles and in general in everyday life,
- use information and communications technology, transfer information taking into account ethical principles and values within the profession,
- take into account safety-related, functional, economic, environmental protection and ecological aspects in their work and in work in research groups and working groups,
- develop moral and ethical criteria with an emphasis on a correct attitude towards work with

customers, offering impartial advice, taking into account technical arguments, independence and professionalism in accordance with applicable legislation,
- create an objective view of the environment and society,

(subject-specific competences)

- demonstrate mastery of basic and specific professional knowledge in the field of geotechnology: above all in the fields of the planning, organisation, administration, management and implementation of geotechnological and mining works and production, information technology, and ecology,
- autonomously undertake comprehensive planning and management of works in complex geotechnological and mining structures,
- autonomously manage projects in the field of geotechnology and mining,
- demonstrate understanding of the reciprocal influences of technical and environmental problems and the design and construction of environmentally friendly geotechnological and mining structures,
- perform complex tasks in the field of geotechnology and mining, both autonomously and within a working group,
- organise, manage and implement development activities in the field of geotechnology and mining,
- demonstrate proficiency in basic knowledge in the field of geotechnology and mining, including knowledge from the natural science field,
- integrate knowledge from various fields and apply acquired knowledge to the addressing of complex professional tasks,
- apply knowledge in specialised fields of geotechnology such as engineering in hill areas, geotechnical construction, extraction of mineral raw materials on and below the surface,
- demonstrate understanding of the basic structure of the fundamental discipline and the links between its sub-disciplines,
- use the information and communication technologies and systems that are most commonly used in practice in the field of geotechnology and mining,
- manage mining and related enterprises and services,

Assessment and completion

Examination performance is graded 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

Students may enrol in the next year if by the end of the academic year they have completed course units prescribed by syllabuses consisting of at least 60 ECTS credits.

Transitions

Third-cycle doctoral study programmes (SQF level 10)

Condition for obtaining certificate

In order to complete the programme, students must complete all prescribed course units, for a total of 120 ECTS credits.

Awarding body

University of Ljubljana, Faculty of Natural Sciences and Engineering

URL

http://www.ntf.uni-lj.si/en/