SLOVENSKO
OGRODJE
KVALIFIKACIJ

Diplomirani inženir materialov (un)/diplomirana inženirka materialov (un)

Selected qualifications

Upravljavec/upravljavka strojev in naprav za ravnanje z odpadki

Name of qualification	Diplomirani inženir materialov (un)/diplomirana inženirka materialov (un)
Translated title (no legal status)	Bachelor of Science in materials engineering
Type of qualification	Diploma prve stopnje (UN)
Category of qualification	Izobrazba
Type of education	Academic bachelor's education
Duration	3 years
Credits	180 credits

Admission requirements

• Matura or
• vocational matura in any secondary school programme,
• school-leaving examination (prior to 1 June 1995) under any four-year secondary school programme

ISCED field

Field
Tehnika, proizvodne tehnologije in gradbeništvo

ISCED subfield

subfield metalurgija, strojništvo in kovinarstvo

Qualification level

SQF 7
EQF 6
First level

Learning outcomes

The qualification holder will be able to:

(general competences)

- demonstrate mastery of fundamental theoretical knowledge from the natural science and mathematics fields of chemistry, physics, mechanics, mathematics and information technology, comparable to the best European universities in related sectors;
- master and apply basic technical knowledge from the interdisciplinarily connected fields of materials engineering and complimentary disciplines in order to understand, plan and process existing and newly developed materials or technological processes;
- attain a standard of knowledge and competences that will enable them to enter the second cycle of sets of lectures of university programmes;
- analyse, synthesise and demonstrate understanding of the influence of technical solutions on environmental and social relations;
- work in multidisciplinary groups;
- demonstrate understanding of the principles of leadership and understanding of business practice;
- demonstrate understanding of own professional and ethical responsibility;
- pursue autonomous learning and recognise the need for lifelong learning.

(subject-specific competences)

- think scientifically;
- demonstrate mastery of the fundamental technical knowledge essential for the technical field of materials engineering, and think technically and innovatively;
- work in the laboratory, apply standard methodology, and reliably assess the results obtained;
- collect and interpret relevant scientific data and formulate a critical and ethical view of them;
- autonomously carry out tasks in a research project;
- take a holistic view of technological processes of the process chain type;
- carry out suitable planning and problem-solving procedures through the use of scientific methods and instruments in a given specialised field;
- communicate information in Slovene to a well-informed professional audience;

- develop learning skills for the use of learning aids (including in English).

Assessment and completion

Students' knowledge is assessed by means of practical exercises and seminar papers, and also via products, projects, performances, services, etc. and by examinations. 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 60 credits.
In order to enrol in the third year, students must have completed all first-year course units (60 credits) and 60 second-year credits.

Transitions

Second-cycle master's study programmes (SQF level 8)

Condition for obtaining certificate

In order to complete a first-cycle programme, students must complete course units in all subjects of the programme in which they have enrolled, for a total of 180 credits, and write and successfully defend a bachelor's thesis in accordance with the provisions of the bachelor's thesis rules adopted by the Senate of the Faculty of Natural Sciences and Engineering of the University of Ljubljana.

Awarding body

Faculty of Natural Sciences and Engineering, University of Ljubljana

URL

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