SLOVENSKO
OGRODJE
KVALIFIKACIJ

Diplomirani inženir kemijskega inženirstva (un)/diplomirana inženirka kemijskega inženirstva (un)

Selected qualifications

Name of qualification	Diplomirani inženir kemijskega inženirstva (un)/diplomirana inženirka kemijskega inženirstva (un)
Translated title (no legal status)	Bachelor of Science in chemical 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 kemijsko inženirstvo in procesi

Qualification level

SQF 7
EQF 6
First level

Learning outcomes

The qualification holder will be able to:

(general competences)

- demonstrate a good grounding in the main fields of chemical engineering, solid knowledge of chemistry and sufficient knowledge of mathematics and physics
- analyse, synthesise and demonstrate understanding of the influence of technical solutions on environmental and social relations;
- communicate effectively, including in English, and use modern presentation tools;
- 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)

- apply standard methodology to the addressing of known problems,
- work safely in a laboratory and carry out their own risk assessments,
- demonstrate understanding of and explain the limits of reliability of their experimental data,
- collect and interpret relevant scientific data,
- take decisions that require deep reflection on relevant scientific and ethical questions,
- successfully carry out a research project, where the result of the project does not necessarily have to meet criteria for publication,
- communicate information, ideas, problems and solutions in Slovene to a well-informed audience,
- satisfy conditions for initial employment in a general position, including jobs in the chemical and pharmaceutical industries,
- be autonomous (use textbooks in English),
- acquire knowledge of relevant basic disciplines and their genesis (particularly mathematics, chemistry, physics) in order to understand, describe and address phenomena in chemical engineering,
- demonstrate understanding of the general structure of chemical engineering and the connections

between its sub-disciplines,
- demonstrate understanding of the basic principles of chemical engineering,
- acquire knowledge of some selected practical applications of process and product engineering,
- carry out suitable planning and problem-solving procedures through the application of scientific methods and tools in a given specialised field.

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 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 Chemistry and Chemical Technology at the University of Ljubljana.

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 Chemistry and Chemical Technology at the University of Ljubljana.

Awarding body

University of Ljubljana, Faculty of Chemistry and Chemical Technology

URL

http://www.fkkt.uni-lj.si/en/about/