SLOVENSKO
OGRODJE
KVALIFIKACIJ

Diplomirani inženir strojništva (vs)/diplomirana inženirka strojništva (vs)

Selected qualifications

Name of qualification	Diplomirani inženir strojništva (vs)/diplomirana inženirka strojništva (vs)
Translated title (no legal status)	Bachelor of Applied Science in mechanical engineering
Type of qualification	Visokošolska strokovna izobrazba
Category of qualification	Izobrazba
Type of education	Professional bachelor's education
Duration	3 years
Credits	180 credits
Admission requirements	• Matura or • vocational matura; or • 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)

- apply acquired knowledge in practice;
- work autonomously in the context of their chosen field of study;
- manage time appropriately;
- break down easier technical tasks into sub-tasks;
- develop a capacity for critical and self-critical thinking;
- work in a group and participate in interdisciplinary integration with experts from other fields;
- manage technological units or projects;
- adapt to changed situations in their work;
- observe safety, functional, economic and environmental protection principles in their work;
- communicate professionally and express themselves in writing;
- present technical problems and their solutions within their own environment and more widely;
- use information and communication technologies;
- seek new sources of knowledge, select from the sources found and use knowledge acquired in this manner in their work;
- demonstrate familiarity with more important technical terms in English or German;
- develop professional responsibility and ethics;
- observe the engineering code of ethics;

(subject-specific competences)

- demonstrate understanding of the physical laws and phenomena on which the function of products and technologies is based;
- demonstrate mastery of the most important concepts of higher mathematics and numerical mathematics;
- demonstrate mastery of basic technical knowledge from the fields of mechanical engineering (technical documentation, mechanics, thermodynamics, machine elements, technological processes, quality) and essential complimentary disciplines (metal and non-metal materials, electrical engineering, information technology and organisational science, economics);
- demonstrate knowledge of basic measuring instruments or measuring chains for the measurement of basic magnitudes in the field of mechanical engineering;
- demonstrate knowledge of the main environmental restrictions and problems;
- demonstrate knowledge of some necessary programming tools for the computer processing of data;
- demonstrate mastery of basic and essential specific knowledge in their selected field of study (POWER, PROCESS AND ENVIRONMENTAL ENGINEERING, PLANNING, OPERATION AND

MAINTENANCE; PRODUCTION ENGINEERING, MECHATRONICS, AVIATION);
- autonomously carry out development and applied, engineering and technical organisational work and address individual well-defined tasks in the field of mechanical engineering.

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 progress to the second year, students must pass first-year examinations totalling at least 45 ECTS credits.
In order to progress to the third year, students must have passed all first-year examinations (60 credits) and second-year examinations totalling at least 40 credits.

Transitions

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

Condition for obtaining certificate

Students complete their studies when they have successfully met all prescribed requirements of a study programme.

Awarding body

Faculty of Mechanical Engineering, University of Maribor

URL

http://www.fs.um.si/en/study/study-programme/