SLOVENSKO
OGRODJE
KVALIFIKACIJ

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

Selected qualifications

Name of qualification	Diplomirani inženir bionike (vs)/diplomirana inženirka bionike (vs)
Translated title (no legal status)	Bachelor of Applied Science in bionics
Type of qualification	Diploma prve stopnje (VS)
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 lesarska, papirniška, plastična, steklarska in podobna tehnologija

Qualification level

SQF 7
EQF 6
First level

Learning outcomes

The qualification holder will be able to:

(general competences)

- act in a moral and ethical manner – i.e. show honesty, accuracy and conscientiousness at work,
- plan and organise their own work and the work of others,
- ensure the quality and efficiency of work in the working environment in accordance with the standards and rules of the profession,
- use modern information and communications technology,
- demonstrate understanding of professional and ethical responsibility,
- demonstrate awareness of the importance of continuing and lifelong education and impart knowledge,
- ensures the rational use of energy, materials and time,
- protect health and the environment and take responsibility for own safety and the safety of others,
- develop entrepreneurial characteristics, skills and behaviour,
- participate in the development of the profession and take the initiative to introduce new developments into the profession,
- use a foreign language to keep abreast of new developments in the profession and communicate with experts from other countries,

(subject-specific competences)

- use computerised bionic processing tools in work procedures and processes,
- make decisions on professional and business matters and address problems in the field of bionics,
- prepare implementation plans for bionic systems,
- participate in the preparation and running of bionics projects,
- participate in the planning, updating, supervision and optimisation of bionic and technical processes,
- identify and analyse existing bionic processes and incorporate new findings,
- incorporate renewable and alternative energy sources into bionic processes,
- keep abreast of information on bionic processes,
- use interdisciplinary knowledge of biology and engineering to resolve concrete challenges in the environment,
- seek models and solutions for engineering problems in nature,
- use modern bionic materials,
- resolve engineering problems through the implementation of nanotechnologies,
- pay due attention to ecology, sustainable development and biodegradability,
- improve the ergonomics of workplaces and working conditions,
- handle raw materials and waste materials appropriately,

- ensure efficient energy consumption.

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 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

In order to progress to the second year, students must have completed all course units prescribed by the study programme, for a total of at least 45 ECTS credits.
In order to progress to the third year, students must have completed all first-year course units and second-year course units totalling at least 45 ECTS credits.

Transitions

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

Condition for obtaining certificate

To complete their studies, students must complete all course units prescribed by the study programme.

Awarding body

Visoka Šola na Ptuju (independent higher education institution)

URL

http://vsp.scptuj.si/