
Inženir elektronike/inženirka elektronike

Selected qualifications

Name of qualification	Inženir elektronike/inženirka elektronike
Translated title (no legal status)	Electronics engineer
Type of qualification	Višja strokovna izobrazba
Category of qualification	Izobrazba
Type of education	Short cycle higher vocational education
Duration	2 years
Credits	120 credits
Admission requirements	<ul style="list-style-type: none">• Matura or vocational matura (previously school-leaving examination); or• master craftsman/foreman/shop manager examination, three years' work experience and test in general education subjects at the level required for the vocational matura in secondary vocational education.

ISCED field

Field
Tehnika, proizvodne tehnologije in gradbeništvo

ISCED subfield

subfield elektronika in avtomatizacija

Qualification level

SQF 6
EQF 5
Short cycle

Learning outcomes

Students will be able to:

(general competences)

- develop professional identity, professional responsibility and professionalism,
- exert a positive influence on the company's objectives by setting their own goals, continuous discovery of ways to improve their own work and self-evaluation,
- use acquired knowledge for successful professional communication in both the domestic and international environments,
- demonstrate understanding of the relationship between the development of production, social development and the development of the environment; develop global awareness of the opportunities, limits and dangers of technological development,
- assume responsibility for ensuring quality and success of work performed, encourage knowledge transfer and innovation and assume responsibility for self-directed learning based on recognising their own strengths and weaknesses, and for lifelong learning,
- carry out tasks in the preparation and control of working processes and, in particular, in the organisation and management of working processes.

(specific vocational competences)

- resolve practical problems in the field of electronics and process automation on the basis of acquired knowledge in the fields of electrical engineering, control and regulation, ICT, foreign languages, economics, organisation and management,
- acquire knowledge with a practical application supported by a theoretical basis and show a capacity to work successfully both autonomously and as part of a team,
- autonomously monitor the development of the profession and take the initiative for the introduction of new features in practice,
- communicate and negotiate with business partners in Slovene and a foreign language,
- plan electronic devices and address problems in accordance with safety requirements and ecological and environmental protection requirements,
- use critical judgement and act responsibly in the working environment and in society and ensure the necessary quality of the production process,
- demonstrate familiarity with basic legislation, standardisation, technical regulations, certification and quality assurance systems in the electrical engineering field,
- demonstrate familiarity with tools and devices and use the instruments necessary to carry out work in the field of electronic systems,
- find necessary information in catalogues, manuals and technical instructions using a personal computer connected to the internet,

- evaluate solutions, products and equipment in the field of electronics,
- introduce, prepare and supervise a system in an automated production context.

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

Students may progress to the second year if they have successfully completed first-year modules, subjects and practical training (including practical classes, seminar papers, projects, examinations, etc.) totalling at least 45 credits, where all practical classes and practical training course units must be completed in full.

Transitions

First-cycle study programmes (SQF, level 7)

Condition for obtaining certificate

In order to complete the programme, students must complete all compulsory modules and subjects for a total of 80 credits: Business communications (20 credits); Basics of electronics (21 credits); Project design and safety (14 credits); Basics of economics (8 credits); Process management (17 credits); Mathematics for engineering (5 credits). One of the following elective modules, consisting of 20 credits: Automation (20 credits), Industrial electronics (20 credits), Energy devices (20 credits). One of the following elective subjects, consisting of 5 credits: Materials in electrical engineering (5 credits), Executive systems (5 credits), Intelligent installations (5 credits), Portable electronics (5 credits). Freely elective subject (5 credits) and degree thesis (5 credits)

Awarding body

Higher Vocational Colleges

URL

<https://paka3.mss.edus.si/registriweb/ProgramPodatki.aspx?ProgramId=3763>
