Tehnik mehatronike SI/tehnica mehatronike SI

Selected qualifications

Name of qualification	Tehnik mehatronike SI/tehnica mehatronike SI
Translated title (no legal status)	Mechatronic Technician SI
Type of qualification	Srednja strokovna izobrazba
Category of qualification	Izobrazba
Type of education	Upper secondary technical education
Duration	4 years
Credits	253 credits
Admission requirements	• Elementary education or • lower vocational education or • equivalent education under previous regulations.
ISCED field	Field Tehnika, proizvodne tehnologije in gradbeništvo

ISCED subfield

subfield interdisciplinarne izobraževalne aktivnosti/izidi, pretežno tehnika, proizvodne tehnologije in gradbeništvo

Qualification level

SQF 5
EQF 4

Learning outcomes

Certificate holders will be able to:

• use and demonstrate understanding of technical plans;
• use information systems in technological processes;
• automate technological processes and maintain technological systems;
• determine loads and load-bearing capacities of structural elements;
• use hydraulic and mechanical elements or systems and electrical machinery or devices;
• build mechatronic systems and plan the assembly and disassembly of mechatronic systems;
• diagnose faults and carry out simple repairs to mechatronic systems;
• program relatively simple applications in different programming languages;
• integrate the information system with the manufacturing process;
• maintain equipment and applications at the level of integration of the information system with manufacturing processes;
• design control and regulation mechanisms and plan pneumatic and hydraulic control systems;
• use and plan digital circuits, microcontrollers, programmable logic controllers (PLCs) and elements of sensor technology.

Elective:

• assemble and test mechatronic systems;
• assemble and disassemble simple mechatronic systems;
• maintain and repair mechatronic systems;
• maintain and repair mechatronic systems.

The programme is adapted for provision in Slovene as the language of instruction in the ethnically mixed area of Slovenian Istria and also has the following special objectives:

• to develop communication skills in Italian and Slovene,
• to develop knowledge of the natural, cultural and historical heritage of the Italian national community and its mother nation,
• to teach respect for and understanding of ethnic and cultural diversity and promote cooperation between members of the Slovene nation and Italian national community. Certificate holders will also have built on their key vocational knowledge and abilities with key general knowledge in line with national standards.

Assessment and completion

Students' vocational competences and skills, and the fulfilment of conditions to obtain credits in

accordance with the education programme are established through testing and assessment. Assessment of students also takes into account non-formally acquired knowledge, which must be adequately demonstrated. Students are assessed using scores from 5 (excellent) to 1 (inadequate).

Progression

Students may progress to the next year if at the end of the academic year they achieve a positive assessment in all general education subjects and relevant vocational modules set out in the school's operational curriculum and have completed all extracurricular activities and work placement requirements.

Transitions

Matura/vocational course, higher vocational education (SQF level 6), professional higher education (SQF level 7) and academic higher education (SQF level 7).

Condition for obtaining certificate

Students must successfully (i.e. with positive scores) complete general education subjects, compulsory and elective vocational modules, and the open part of the curriculum. They must also complete extracurricular activities and work placement requirements and pass the vocational matura examination. The vocational matura comprises a compulsory section (written and oral examinations in Slovene and healthcare) and an elective section (written and oral examination in mathematics, a foreign language or Italian, and service with oral presentation).

Awarding body

Secondary vocational and technical schools.

URL

https://paka3.mss.edus.si/registriweb/ProgramPodatki.aspx?ProgramId=8859