ŠIAULIŲ VALSTYBINĖ KOLEGIJA

SIAULIAI STATE COLLEGE

Study programme:

MECHATRONICS

(6531EX062)

The study programme aims to train the production engineering specialist:

- having integral knowledge of mechanics, electronics and information technology as well as the organization of the production;
- capable to understand technological processes, manage and monitor technological equipment;
- capable to design and improve mechanical and mechatronic systems;
- independently adopt and implement decisions, work innovatively in competitive conditions;
- improve in professional activities.

► DEGREE

Professional Bachelor of Engineering Sciences

► MODE AND DURATION

Full-time – 3 years
Part-time – 4 years

► LANGUAGE OF INSTRUCTION

English

► GROUP OF STUDY FIELDS, STUDY FIELD

Engineering Sciences, Production and Manufacturing Engineering

► SCOPE OF THE STUDY

180 credits (ECTS)

► TUITION FEE PER YEAR

Full-time – 2500 EUR
Part-time – 1875 EUR

POSSIBLE CAREER PATHS

Graduates of Mechatronics study programme will be able to work in manufacturing companies as technologists-programmers capable to develop CNC device management programmes and apply them in practice; masters, production managers capable of organizing the production process; digital mechanics engineers, understanding the importance of modernizing production processes, capable to select, assemble and adjust new equipment; consultants in the field of digitization of production processes. The lack of these specialists is mostly felt in the innovative manufacturing sector, which has the greatest potential for development and which is inevitability based on advanced mechatronics technologies.

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UNDERGRADUATE DEGREE IN ***MECHATRONICS*** (Project)

		Subjects	ECTS credits
I YEAR	Semester I	Physics	6
		Engineering Graphics	3
		Engineering Materials	6
		Mathematics	6
		Cognitive Practice	3
		Technical Measurements	3
		Digital Technologies	3
	Semester II	Professional Foreign Language	6
		Professional Language	3
		Electrotechnics and Electronics	6
		Engineering Mechanics	6
		Computer Projection	6
		Measurement Practice	3
		Subjects	**ECTS credits**
II YEAR	Semester III	Basics of Automation	6
		Engineering Research	3
		Machine Elements	6
		Materials Processing Technological Equipment	9
		Programming	6
	Semester IV	Environmental and Human Safety	3
		Exploitation Practice	9
		Gear Management Systems	6
		Technological Equipment Exploitation	3
		Manufacturing Technologies	3
		Basics of Robotics / Special Production Technology	3
		Sociology / Philosophy / Basics of Law;	3
		Subjects	**ECTS**
III YEAR	Semester V	Manufacturing Technologies	3
		Computer Materials Processing	6
		Technological Practice	9
		Economy of Companies and Management	3
		Technological Equipment Modernization / Image Processing in Automated Production	6
		Automatic Management of Technological Processes / Programming of Industrial Robots.	3
	Semester VI	Economy of Companies and Management	3
		Production Management	6
		Automatic Management of Technological Processes / Programming of Industrial Robots.	3
		Final Practice	6
		Final Project	12

* Free Elective Subject
** Elective Specialization Subject