

### 3. INFORMATION ABOUT LITHUANIA, ŠIAULIAI AND ŠIAULIAI STATE COLLEGE

#### 3.4. GENERAL DESCRIPTION OF STUDY PROGRAMMES

##### 3.4.6. ELECTRICAL AND AUTOMATION EQUIPMENT (Code 653H62006)

**Qualification Degree and/or Qualification:** Professional Bachelor in Electrical Engineering

**Objectives of the programme:**

To prepare the specialist of Electrical and Automation Equipment who will be able to organise the activities of electricity distribution companies, industrial and agricultural companies. He/she will be able to organise the activities of a company's electric economy, set technical terms of projects, design electrical and automation equipment, manage automatic systems, use programmable controllers in automation technologies. He/she will understand the technologies of wiring, repair, and exploitation of electrical and automation devices, the factors of the economy of a company.

**Study modes:** full-time, part-time

**The structure of the study programme:**

1 semester		
Subjects	Credits	ECTS credits
Basics of Professional Language	2	3
Professional Foreign Language	2	3
Technical Mechanics	2	3
Information Technologies	3	4.5
Engineering and Computer Graphics	3	4.5
Mathematics	4	6
Physics	4	6
Physical Education		
Total:	20	30

2 semester		
Subjects	Credits	ECTS credits
Professional Foreign Language	2	3
Mathematics	2	3
Physics	2	3
Theoretical Electrotechnics	5	7.5
Industrial Electronics	4	6
Computer Programming	3	4.5
<i>Practice of Electrical Wiring</i>	2	3
Physical Education		
Total:	20	30

3 semester		
Subjects	Credits	ECTS credits
Basics of Economics	2	3
Electrical Machines and Transformers	3	4.5

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3 semester		
Subjects	Credits	ECTS credits
Electrical Measurements	4	6
Automation	3	4.5
Electric Power Supply	4	6
Electrotechnical Materials	2	3
<i>Optional Subject</i>	2	3
Physical Education		
Total:	20	30

4 semester		
Subjects	Credits	ECTS credits
<i>Elective Subjects:</i> Philosophy of Technology History of Technology	2	3
Electrical Drives	3	4.5
Electrical Devices of Enterprises and Civil Buildings (Course Project)	4	6
Enterprise Economics (Course Project)	3	4.5
Practice of Electrical and Automation Equipment Wiring	6	9
<i>Optional Subject</i>	2	3
Physical Education		
Total:	20	30

5 semester		
Subjects	Credits	ECTS credits
<i>Elective Subjects:</i> Basics of Management Basics of Law	2	3
Environmental and Human Safety	2	3
Power Engineering Economy	2	3
<i>Practice of Exploitation of Electrical and Automation Equipment</i>	5	7.5
<i>Elective Subjects:</i> Control Data Transmission Sensors	2	3
<i>Elective Subjects:</i> Automation of Technological Processes (Course Project) Home Automation Systems (Course Project)	5	7.5
<i>Optional Subject</i>	2	3
Civil Safety		
Total:	20	30

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6 semester		
Subjects	Credits	ECTS credits
Electrical Drive Control Systems	2	3
Wiring, Maintenance and Repair of Electrical Equipment	2	3
<i>Elective Subjects:</i> Electro-Pneumatic Automation Systems Electro-Hydraulic Automation Systems	3	4.5
<i>Pre-graduation Practice</i>	5	7.5
Final Project	8	12
<b>Total:</b>	<b>20</b>	<b>30</b>