

3. INFORMATION ABOUT LITHUANIA, ŠIAULIAI AND ŠIAULIAI STATE COLLEGE

3.4. GENERAL DESCRIPTION OF STUDY PROGRAMMES

3.4.7. ELECTRICAL POWER ENGINEERING (Code 653H63003)

Qualification Degree and/or Qualification: Professional Bachelor in Electrical Power

Objectives of the programme:

To prepare the specialist of Electrical Power Engineering who will be able to manage electrical device and automated systems, understand the coordination of the resources of the sector of electrical power engineering and the processes of engineering projection. He/she will be able to design transformer substations and electricity supply systems, understand the repair and exploitation technologies of electrical economy and the factors of power engineering economy.

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
Physics	4	6
Mathematics	4	6
Physical Education		
Total:	20	30

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

3 semester		
Subjects	Credits	ECTS credits
Thermohydropneumatics	2	3
Electricity Distribution Networks (Course Project)	4	6
Technologies of Electricity Generation	3	4.5

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Subjects	Credits	ECTS credits
Basics of Automation	2	3
Electrical Machines and Transformers	3	4.5
Electrical Measurements	4	6
<i>Optional Subject</i>	2	3
Physical Education		
Total:	20	30

4 semester		
Subjects	Credits	ECTS credits
Basics of Economics	2	3
<i>Elective Subjects:</i> Philosophy of Technology History of Technology	2	3
Electrical Power Systems (Course Project)	4	6
Electrotechnical Materials	2	3
Electric Drives	2	3
<i>Practice of Wiring of Electrical Power Engineering Devices</i>	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
Economy of Power Engineering (Course Paper)	3	4.5
Wiring and Maintenance of Electrical Devices	3	4.5
<i>Practice of Maintenance of Electrical Devices</i>	6	9
<i>Elective Subjects:</i> Electrotechnology Electrical Devices of Enterprises and Civil Buildings	4	6
<i>Optional Subject</i>	2	3
Civil Safety		
Total:	20	30

6 semester		
Subjects	Credits	ECTS credits
Environmental and Human Safety	2	3
<i>Elective Subjects:</i>	3	4.5

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6 semester		
Subjects	Credits	ECTS credits
Alternative Renewable Energy Sources Modern Electricity Generation and Distribution Technologies		
<i>Elective Subjects:</i> Electricity Economy of the Company Electrical Equipment of Stations and Substations	3	4.5
<i>Pre-graduation Practice</i>	4	6
Final Project	8	12
Total:	20	30