

3. INFORMATION ABOUT LITHUANIA, ŠIAULIAI AND ŠIAULIAI STATE COLLEGE

3.4. GENERAL DESCRIPTION OF STUDY PROGRAMMES

3.4.8. ENVIRONMENTAL PROTECTION (Code 653H17003)

Qualification Degree and/or Qualification: Professional Bachelor in Environmental Protection

Objectives of the programme:

To prepare the engineer of Environmental Protection able to evaluate chemical processes of the biosphere; he/she will be able to analyse and evaluate the anthropogenic impact on the environment, draft environmental protection programmes, analyse water preparation and water cleaning equipment and control it. The engineer will be able to perform ecological expertise of different objects, consult about the rational use of natural resources. He/she will be able to organise company activities.

Study modes: full-time, part-time

The structure of the study programme:

1 semester		
Subjects	Credits	ECTS credits
Chemistry	4	6
Mathematics	4	6
Electrotechnics and Electronics	2	3
Materials Science	2	3
Hydraulics	2	3
Engineering Geology	2	3
General Ecology	4	6
Physical Education		
Total:	20	30

2 semester		
Subjects	Credits	ECTS credits
Chemistry	2	3
Mathematics	2	3
Technical Mechanics	2	3
Engineering and Computer Graphics	3	4.5
Information Technologies	3	4.5
Environmental Studies	4	6
<i>Environmental Control Practice</i>	4	6
Physical Education		
Total:	20	30

3 semester		
Subjects	Credits	ECTS credits
Professional Foreign Language	4	6
<i>Elective Subjects:</i>	2	3
Philosophy of Technology		
History of Technology		

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3 semester		
Subjects	Credits	ECTS credits
Water Processing	2	3
Engineering Networks	3	4.5
Environmental Microbiology	2	3
Practice of Assessment of Risk to the Environment	5	7.5
<i>Optional Subject</i>	2	3
Physical Education		
Total:	20	30

4 semester		
Subjects	Credits	ECTS credits
Basics of Professional Language	2	3
<i>Elective Subjects:</i>	2	3
Sociology		
Basics of Law		
Professional Ethics		
Water Processing (Course Project)	3	4.5
Environmental Informatics	2	3
Wastewater Treatment Technologies (Course Project)	5	7.5
<i>Technological Practice of Water Processing and Water Treatment</i>	4	6
<i>Optional Subject</i>	2	3
Physical Education		
Total:	20	30

5 semester		
Subjects	Credits	ECTS credits
Business Economics and Management (Course Paper)	4	6
Pollution Prevention and Control (Course Project)	4	6
Automatic Control Systems of Technological Processes	3	4.5
<i>Practice of Environmental Protection</i>	3	4.5
<i>Elective Subjects:</i>	2	3
Industrial Wastewater Treatment		
Small-scale Water Treatment Equipment		
<i>Elective Subjects:</i>	2	3
Air Cleaning Technologies		
Atmosphere Protection		
<i>Optional Subject</i>	2	3
Civil Safety		
Total:	20	30

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6 semester		
Subjects	Credits	ECTS credits
Human Safety	2	3
<i>Elective Subjects (Course Project):</i> Industrial Wastewater Treatment Small-scale Water Treatment Equipment	3	4.5
<i>Elective Subjects:</i> Waste Management Equipment Waste Management Technologies	3	4.5
<i>Pre-graduation Practice</i>	4	6
Final Project	8	12
Total:	20	30