

3. INFORMATION ABOUT LITHUANIA, ŠIAULIAI AND ŠIAULIAI STATE COLLEGE

3.4. GENERAL DESCRIPTION OF STUDY PROGRAMMES

3.4.13. MOTOR TRANSPORT ELECTRONICS (Code 653E21006)

Qualification Degree and/or Qualification: Professional Bachelor in Automobile Transport Engineering

Objectives of the programme:

To prepare motor transport engineers able to work as foremen, diagnostics or division managers in automobile repair and maintenance companies, automobile servicing centres who are able to implement electronic control systems equipment, to diagnose and repair electronic and mechatronic systems; know the purpose and functional possibilities of electronic devices, constructional peculiarities and operation principles of automobile systems; are able to work responsibly, thoroughly, independently; who are organised and able to communicate with colleagues and customers efficiently.

Branches:

- Car Electronics
- Lorry Electronics
- Bus Electronics

Study modes: full-time, part-time

The structure of the study programme:

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

2 semester		
Subjects	Credits	ECTS credits
Mathematics	2	3
Physics	3	4.5
Automobiles	4	6
Electrotechnics and Electronics	4	6
Engineering Materials	2	3
Programming	3	4.5
<i>Practice of Measurements</i>	2	3
Physical Education		
Total:	20	30

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3 semester		
Subjects	Credits	ECTS credits
<i>Elective Subjects:</i>	2	3
Professional English Language		
Professional French Language		
Professional Russian Language		
Professional German Language		
Digital and Analogue Circuits	3	4.5
Sensors	3	4.5
Microprocessors (Course Paper)	4	6
Automobile Maintenance and Permanent Repair (Course Paper)	4	6
<i>Practice of Automobile Equipment</i>	2	3
<i>Optional Subject</i>	2	3
Physical Education		
Total:	20	30

4 semester		
Subjects	Credits	ECTS credits
<i>Elective Subjects:</i>	2	3
Professional English Language		
Professional French Language		
Professional Russian Language		
Professional German Language		
Automobile Electrical Equipment	3	4.5
Automobile Diagnostics (Course Paper)	4	6
Digital Signal Processing	2	3
<i>Practice of Diagnostics</i>	7	10.5
<i>Optional Subject</i>	2	3
Physical Education		
Total:	20	30

5 semester		
Subjects	Credits	ECTS credits
Basics of Management	2	3
Transport System	2	3
Automobile Communications	2	3
<i>Practice of Automobile Electronics</i>	5	7.5
<i>Branches:</i>		
<i>Branch: Car Electronics</i>		
Automobile Comfort Systems	3	4.5
Engine Control Electronics (Course Paper)	4	6
<i>Branch: Lorry Electronics</i>		
Suspension Control Electronics	3	4.5

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5 semester		
Subjects	Credits	ECTS credits
Electronics of Supply Systems of Diesel Engines (Course Paper)	4	6
<i>Branch: Bus Electronics</i>		
Electronic Equipment of the Bodywork	3	4.5
Automatic Gearboxes (Course Paper)	4	6
<i>Optional Subject</i>	2	3
Civil Safety		
Total:	20	30

6 semester		
Subjects	Credits	ECTS credits
Transport Economics (Course Paper)	3	4.5
Environmental and Human Safety	2	3
<i>Branches:</i>		
<i>Branch: Car Electronics</i>		
Electronics of Transmission and Control Mechanisms	3	4.5
<i>Branch: Lorry Electronics</i>		
Brake Control Electronics	3	4.5
<i>Branch: Bus Electronics</i>		
Chassis Control Electronics	3	4.5
<i>Pre-graduation Practice</i>	4	6
Final Project	8	12
Total:	20	30