

Bachelor Program: Exploitation of Transport and Technological Machines and Complexes
 Field of Studies: Car Service
 Years of Studies: 4
 Language of Training: Russian

| № | Subject | Semester | Hours | Credits |
|-----------------|--|-----------------|--------------|----------------|
| Б.1.1 | Basic part | | | |
| Б.1.1.1 | History | 1 | 108 | 3 |
| Б.1.1.2 | Philosophy | 5 | 108 | 3 |
| Б.1.1.3 | Foreign language | /1, 2, 3 | /288 | /8 |
| Б.1.1.3 | Foreign language | 1 | 108 | 3 |
| Б.1.1.3 | Foreign language | 2 | 108 | 3 |
| Б.1.1.3 | Foreign language | 3 | 72 | 2 |
| Б.1.1.4 | Economy | 4 | 108 | 3 |
| Б.1.1.5 | The Economics of the industry | 5 | 72 | 2 |
| Б.1.1.6 | Production management | 6 | 72 | 2 |
| Б.1.1.7 | Marketing | 6 | 72 | 2 |
| Б.1.1.8 | Economics of enterprise | 4 | 72 | 2 |
| Б.1.1.9 | Psychology | 3 | 108 | 3 |
| Б.1.1.10 | Mathematics | /1,2 | /288 | /8 |
| Б.1.1.10 | Mathematics | 1 | 144 | 4 |
| Б.1.1.10 | Mathematics | 2 | 144 | 4 |
| Б.1.1.11 | Computer science | 1 | 180 | 5 |
| Б.1.1.12 | Physics | 2 | 180 | 5 |
| Б.1.1.13 | Chemistry | 1 | 72 | 2 |
| Б.1.1.14 | Ecology | 4 | 72 | 2 |
| Б.1.1.15 | Theoretical mechanics | 1 | 108 | 3 |
| Б.1.1.16 | Engineering graphics (drawing) | 1 | 108 | 3 |
| Б.1.1.17 | Descriptive geometry and computer graphics | 2 | 108 | 3 |
| Б.1.1.18 | Strength of materials | 2 | 108 | 3 |
| Б.1.1.19 | Hydraulics and hydraulic | 3 | 72 | 2 |

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| | pneumatic drive | | | |
| Б.1.1.20 | General electrical and electronics engineering | 3 | 72 | 2 |
| Б.1.1.21 | Life safety | 7 | 108 | 3 |
| Б.1.1.22 | Electrical engineering and electrical equipment of transport and transport-technological machines and equipment | 5 | 72 | 2 |
| Б.1.1.23 | Production and technical infrastructure of enterprises | 6 | 108 | 3 |
| Б.1.1.24 | Theory of mechanisms and machines | 3 | 108 | 3 |
| Б.1.1.25 | Machine parts and design basics | 4 | 108 | 3 |
| Б.1.1.26 | Thermotechnics | 2 | 72 | 2 |
| Б.1.1.27 | Materials science. Technology of construction materials | 2 | 108 | 3 |
| Б.1.1.28 | Metrology, standardization and certification | 5 | 108 | 3 |
| Б.1.1.29 | Hydraulic and pneumatic systems of transport and transport-technological machines and equipment | 8 | 72 | 2 |
| Б.1.1.30 | Construction and operational properties of transport and transport-technological machines and equipment | /6, 7 | /216 | /6 |
| Б.1.1.30 | Construction and operational properties of transport and transport-technological machines and equipment | 6 | 108 | 3 |
| Б.1.1.30 | Construction and operational properties of transport and transport-technological machines and equipment | 7 | 108 | 3 |
| Б.1.1.31 | Power unit | 5 | 144 | 4 |
| Б.1.1.32 | Operational materials | 3 | 108 | 3 |
| Б.1.1.33 | Basics of production technology and repair of | 7 | 108 | 3 |

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| | transport and transport-technological machines and equipment | | | |
| Б.1.1.34 | Technological processes of maintenance and repair of transport and transport-technological machines and equipment | 7 | 144 | 4 |
| Б.1.1.35 | Type and operation of process equipment | 8 | 72 | 2 |
| Б.1.1.36 | Fundamentals of technical system performance | 3 | 72 | 2 |
| Б.1.1.37 | Certification and licensing in the field of production and operation of transport and transport-technological machines and equipment | 8 | 72 | 2 |
| Б.1.1.38 | Physical culture | 1 | 72 | 2 |
| | Total for the basic part | | 4248 | 118 |
| Б.1.2 | The variable part | | | |
| Б.1.2.1 | Legal state: history and modernity | 2 | 72 | 2 |
| Б.1.2.2 | Philosophy of science and technology | 6 | 108 | 3 |
| Б.1.2.3 | Management in the service station | 7 | 180 | 5 |
| Б.1.2.4 | Efficiency, Economics of technical service services and business fundamentals | 5 | 108 | 3 |
| Б.1.2.5 | Fundamentals of reliability theory and diagnostics of transport and transport-technological machines and equipment | 4 | 216 | 6 |
| Б.1.2.6 | The regulations for the protection of the environment | 7 | 108 | 3 |
| Б.1.2.7 | Modeling of processes in the design, operation and restoration of vehicle units | 6 | 180 | 5 |

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| Б.1.2.8 | System, technology and organization of services | /5,6 | /360 | /10 |
| Б.1.2.8 | System, technology and organization of services | 5 | 216 | 6 |
| Б.1.2.8 | System, technology and organization of services | 6 | 144 | 4 |
| Б.1.2.9 | Design of production sites for car service centers | 8 | 216 | 6 |
| Б.1.2.10 | Type of rolling stock and vehicle structure | 3 | 252 | 7 |
| Б.1.2.11 | Modern and advanced electronic car systems | 4 | 216 | 6 |
| Б.1.2.12 | Organization and safety of the transport process | 7 | 144 | 4 |
| Б.1.2.13 | 3D modeling and CAD basics | 3 | 72 | 2 |
| Б.1.3 | Elective courses | | 1480 | 32 |
| Б.1.3.1.1 | History of Russian culture | 1 | 72 | 2 |
| Б.1.3.1.2 | History of science and technology | /1 | /72 | /2 |
| Б.1.3.2.1 | Mathematical analysis of processes in car systems and units | 3 | 144 | 4 |
| Б.1.3.2.2 | Analysis of the dynamics of a car collision with an obstacle from the point of view of passenger safety | /3 | /144 | /4 |
| Б.1.3.3.1 | Theory of vibrations of elements of transport and transport-technological machines | 2 | 180 | 5 |
| Б.1.3.3.2 | Oxidative reactions of petroleum fuels and bases of catalytic transformations of their combustion products | /2 | /180 | /5 |
| Б.1.3.4.1 | Resource saving in a car service center | 4 | 72 | 2 |
| Б.1.3.4.2 | Additives that improve the properties of oils and fuels | /4 | /72 | /2 |
| Б.1.3.4.3 | Military training | /4 | /72 | /2 |

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| Б.1.3.5.1 | Smooth running and handling of the car as a compromise in the design of the suspension | 5 | 72 | 2 |
| Б.1.3.5.2 | Active, passive and environmental safety of transport and transport-technological machines | /5 | /72 | /2 |
| Б.1.3.5.3 | Military training | /5 | /72 | /2 |
| Б.1.3.6.1 | Foreign language for professional communication | /4, 5 | /180 | /5 |
| Б.1.3.6.1 | Foreign language for professional communication | 4 | 72 | 2 |
| Б.1.3.6.1 | Foreign language for professional communication | 5 | 108 | 3 |
| Б.1.3.6.2 | Technical translation | /4, 5 | /180 | /5 |
| Б.1.3.6.2 | Technical translation | /4 | /72 | /2 |
| Б.1.3.6.2 | Technical translation | /5 | /108 | /3 |
| Б.1.3.6.3 | Military training | /4,5 | /144 | /4 |
| Б.1.3.6.3 | Military training | /4 | /72 | /2 |
| Б.1.3.6.3 | Military training | /5 | /72 | /2 |
| Б.1.3.7.1 | Design of non-standard equipment and process equipment for car service centers | 6 | 144 | 4 |
| Б.1.3.7.2 | Planning, analysis of business activities and quality of customer service in the company's car service center | /6 | /144 | /4 |
| Б.1.3.7.3 | Military training | /6 | /180 | /5 |
| Б.1.3.8.1 | Organization of state registration and control of the technical condition of vehicles | 7 | 216 | 6 |
| Б.1.3.8.2 | Features of operation and operation of diesel engines | /7 | /216 | /6 |
| Б.1.3.8.3 | Military training | /7 | /180 | /5 |
| Б.1.3.9.1 | Information support for branded car service companies | 8 | 72 | 2 |

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| Б.1.3.9.2 | Standards of branded service at official dealerships | /8 | /72 | /2 |
| Б.1.3.9.3 | Military training | /8 | /108 | /3 |
| Б.1.3.10.1 | Team sports | /2-6 | /328 | 0 |
| Б.1.3.10.1 | Team sports | 2 | 82 | 0 |
| Б.1.3.10.1 | Team sports | 3 | 82 | 0 |
| Б.1.3.10.1 | Team sports | 4 | 82 | 0 |
| Б.1.3.10.1 | Team sports | 5 | 38 | 0 |
| Б.1.3.10.1 | Team sports | 6 | 44 | 0 |
| Б.1.3.10.2 | Sports and recreation activities | /2-6 | /328 | 0 |
| Б.1.3.10.2 | Sports and recreation activities | /2 | /82 | 0 |
| Б.1.3.10.2 | Sports and recreation activities | /3 | /82 | 0 |
| Б.1.3.10.2 | Sports and recreation activities | /4 | /82 | 0 |
| Б.1.3.10.2 | Sports and recreation activities | /5 | /38 | 0 |
| Б.1.3.10.2 | Sports and recreation activities | /6 | /44 | 0 |
| | Total for the variable part | | 3712 | 94 |
| | Total for block B. 1 | | 7960 | 212 |
| | Practice Block 2 | | | |
| Б.2 | Practices (the variable part) | | 792 | 22 |
| Б.2.1 | 1st Training practice* | 2 | 108 | 3 |
| Б.2.2 | 2nd Training practice* | 4 | 144 | 4 |
| Б.2.3 | Manufacturing practice** | 6 | 216 | 6 |
| Б.2.4 | Production practice (technological) | 8 | 108 | 3 |
| Б.2.5 | Externship | 8 | 216 | 6 |
| | Block 3 State final certification | | | |
| Б.3 | The state final examination (the basic part) | | 216 | 6 |

| | Total by direction | | 8968 | 240 |
|-----|--|----------------|-------------|------------|
| Φ. | Optional subjects | | | |
| Φ.1 | Military training | 8 | 252 | |
| Φ.2 | Electromobiles | 6 | 72 | |
| Φ.3 | Military training 01 | /4, 5, 6, 7, 8 | /843 | |
| Φ.3 | Military training 01 | 4 | 144 | |
| Φ.3 | Military training 01 | 5 | 144 | |
| Φ.3 | Military training 01 | 6 | 144 | |
| Φ.3 | Military training 01 | 7 | 108 | |
| Φ.3 | Military training 01 | 8 | 51 | |
| Φ.4 | Military training 01 (final certification) | 8 | 252 | |