

Bachelor Program: Exploitation of transport and technological machines and complexes  
 Field of Studies: Cars and Automotive Industry  
 Years of Studies: 4  
 Language of Training: Russian

<b>№</b>	<b>Subject</b>	<b>Semester</b>	<b>Hours</b>	<b>Credits</b>
<b>Б.1.1</b>	<b>Basic part</b>			
Б.1.1.1	History	1	108	3
Б.1.1.2	Philosophy	5	108	3
<b>Б.1.1.3</b>	<b>Foreign language</b>	<b>/1, 2, 3</b>	<b>/288</b>	<b>/8</b>
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
<b>Б.1.1.10</b>	<b>Mathematics</b>	<b>/1,2</b>	<b>/288</b>	<b>/8</b>
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

	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

	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
	<b>Total for the basic part</b>		<b>4248</b>	<b>118</b>
<b>Б.1.2</b>	<b>The variable part</b>			
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

<b>Б.1.2.8</b>	<b>Technical operation of vehicles</b>	<b>/5,6</b>	<b>/360</b>	<b>/10</b>
Б.1.2.8	Technical operation of vehicles	5	216	6
Б.1.2.8	Technical operation of vehicles	6	144	4
Б.1.2.9	Design of road transport enterprises	8	216	6
Б.1.2.10	Type of rolling stock and vehicle structure	3	252	7
Б.1.2.11	Management of technical 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
<b>Б.1.3</b>	<b>Elective courses</b>		<b>1480</b>	<b>32</b>
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 during MAINTENANCE and repair	4	72	2
Б.1.3.4.2	Tribology	/4	/72	/2
Б.1.3.4.3	Military training	/4	/72	/2
Б.1.3.5.1	Use of alternative fuels in	5	72	2

	road transport			
Б.1.3.5.2	Technological processes for restoring emergency vehicles	/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	Basics of design and operation of process equipment	6	144	4
Б.1.3.7.2	Organizational and production structures of technical operation	/6	/144	/4
Б.1.3.7.3	Military training	/6	/180	/5
Б.1.3.8.1	Production communications of at enterprises	7	216	6
Б.1.3.8.2	Test method	/7	/216	/6
Б.1.3.8.3	Military training	/7	/180	/5
Б.1.3.9.1	Information support for motor transport systems	8	72	2
Б.1.3.9.2	Car service and branded car service	/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
	<b>Total for the variable part</b>		<b>3712</b>	<b>94</b>
	<b>Total for block B. 1</b>		<b>7960</b>	<b>212</b>
	<b>Practice Block 2</b>			
<b>Б.2</b>	<b>Practices (the variable part)</b>		<b>792</b>	<b>22</b>
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
	<b>Block 3 State final certification</b>			
<b>Б.3</b>	<b>The state final examination (the basic part)</b>		<b>216</b>	<b>6</b>
	<b>Total by direction</b>		<b>8968</b>	<b>240</b>
Ф.	Optional subjects			
Ф.1	Military training	8	252	
Ф.2	Hydrogen fuel in road transport	6	72	
Ф.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	