## **EDUCATION PROGRAM DESCRIPTION**

## **Transport Business and**

## **Railway Operating**

- 3. Awarded degree Diplomaed Specialist
- 4. Term of studies 5 years
- 5. Language of the program Russian
- 6. List of subjects (with summary)

	Title	Summary
	<b>HUMANITIES, SOCIAL</b>	
	STUDIES AND	
	<b>ECONOMICS</b>	
	Main Subjects	
1	History	
2	Philosophy	
3	Political Science	
4	Study of Culture	
5	Economics	
6	Law	
7	Russian Language and	
	Speech Culture	
8	Foreign Language	
9	Social Studies	
10	Psychology and Pedagogy	
	Outsourcing in the	Outsourcing: concept and classification. Advantages and
11	Spheres of Transport	disadvantages of outsourcing.
	Business and Logistics	
	Variant Subjects	
	Compulsory Subjects	
1	History of Technology	Main Ideas about transport. Inventions that help to develop transport.
	Optional Subjects	
1	Law Basics for Transport Safety	Main goals and objectives for transport safety. Law basis for transport safety.
2	Business Law	A Concept and a subject of a business law. Commercial contract. Business law issues and solutions.
	MATHEMATICS AND	
	NATURAL SCIENCES	
	Main Subjects	
1	Mathematics	
2	Physics	
3	Theoretical Mechanics	Statics. Kinematics. Main theorems of the dynamics.
	Applied Mechanics:	

6	Information Science	
7	Chemistry	
8	Ecology	
	Mathematical analysis for	
9	systems and processes	
40	Engineering & Computer	
10	Graphics	
	Information Technologies	Information Flows and Logistic Information Systems.
11	in Transport Business and	Information Resources for Transport Logistics. EDIFACT
	Logistics	standards.
	Variant Subjects	
	Compulsory Subjects	
1	Accounting and Railway	Statistics: concept, objectives and functions. Statistic
•	Statistics	information. Railway Statistics.
2	Ergonomics	Ergonomics: concept, objectives and methods. Ergonomic
_	3	criteria. Economic efficiency of ergonomic measures.
	Optional Subjects	Made de la constante de la Paris de la Constante de la Constan
1	Metrology, Standardization	Metrology and standardization in transport process.
	and Certification	Certification systems.  Network architecture. Network models. Local network
2	Network Information	
2	Resources	technology. Internet: protocols, browsers, search
	MAJOR RELATED	technologies, e-mail.
	SUBJECTS	
	Main Subjects	
	·	Macro- and Micro-analysis. Mechanical properties. Iron and
1	Material Science	its alloys. Metal materials. Non-ferrous metals and alloys.
	General Electrotechnics &	Linear AC circuits. Linear DC circuits. Three-phase linear
2	Electronics	circuits. Magnetic chains.
		HS: basic concepts, terms and definitions. HS law basis.
3	Human Safety	Nature perils and threats. Anthropogenic perils and
		protection. Social and medical security.
4	Marketing Basics	Marketing as a concept of production management. Market
	Warketing Basios	research. Product research. Marketing environment.
5	Transport Business Basics	Modern methods of transportation management. Transport
	20000	business features. Organizational forms of business.
	Refrigerated Transport and	Perishable goods (PG): storage and transportation specifics.
6	Heat Engineering Basics	Refrigeration in transport & economics. Refrigerated transport
		economics. Refrigeration and heat engineering basics
7	Transport in General	Basic concepts of transport, transport systems. Global development tendencies for various means of transportation.
		Transport system in Russia. Freight and passenger traffic.
8	Transport Economics	Transport labor management. Transport fares.
		General and other means of communication. Track structure.
9	Means of Communication	Roadbed foundation.
		General information about the car fleet. Car characteristics.
10	Non-traction Rolling Stock	Containers.
4.4	D	General information about the rolling stock. Train motion
11	Railway Traction	theory. Train brake power.
40	Freight Management	Cargo concept. Classification of cargo. Packaging and
12		marking. Transportation and storage.
13	Transport & Cargo	TCS: definition, classification, structure. Bridge and jib
13	Systems	cranes. Elevators. Production lines.

	Railway Automatics,	General notions of railway traffic organization.		
14	Telemechanics and	Communication lines classification. Railway Automatics and		
	Communication	Telemechanics objects of control.		
15	Railway Stations and Junctions	General review of Russian and foreign railway stations and junctions current condition. Classification of stations. Classification yard.		
16	Freight and Business	ailway freight fares and its classification. Container		
10	Management	transportation.		
	Transport Law	Main principals of railway law regulations. Contract of		
17		carriage. Law basis for transportation of passengers, luggage,		
		mail, etc.		
18	Transport Service	Service: main definitions. Transport services. Service centers at the railway stations.		
	Interaction Between	Functional characteristics of means of transportation.		
19	Different Means of	Conditions for interaction of MT. Economic indicators for MT.		
	Transportation			
	Railway Transport			
20	Maintenance and Traffic			

	Services	
	Development of Perishable	Perishable goods: storage conditions and preparation for
2	Goods Transportation	transportation. Cold storages and its classification.
	Technology	Refrigerating cars.
	Up-to-date Reconstruction	Interaction of different means of transport at the transport
3	Issues of Stations and	hubs. Classification of transport hubs. Development of the
	Hubs	transport hubs,
	Physical Education	
	Practice, Research	
	Practical Study	
	Internship	
	State Final Examination	

## 7. Amount of credits, hours for each subject, forms of knowledge control

Title	Credits	Hours	Form of control
HUMANITIES, SOCIAL STUDIES AND ECONOMICS	38	1368	
Main Subjects	28		
History	4	144	Exam

Accounting and Railway Statistics         2         72         Test           Ergonomics         2         72         Test           Optional Subjects         2         72         Test           Metrology, Standardization and Certification         2         72         Test           Network Information Resources         ***         ***         ***           MAID Subjects         142         5112         ***           Mal Subjects         142         5112         ***           Material Science         3         108         Test           General Electrotechnics & Electronics         4         144         Exam           Human Safety         3         108         Test           Marketing Basics         2         72         Test           Marketing Basics         3         108         Exam           Refrigerated Transport and Heat Engineering Basics         4         144         Exam           Refrigerated Transport and Heat Engineering Basics         4         144         Exam           Refrigerated Transport and Heat Engineering Basics         4         144         Exam           Transport In General         4         144         Exam           Transport In G	Compulsory Subjects	4	144	
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Optional Subjects         2         72         Test           Network Information Resources         146         5256         5256           MAJOR RELATED SUBJECTS         146         5256         5256           Main Subjects         142         5112         5112           Material Science         3         108         Test           General Electrotechnics & Electronics         4         144         Exam           Human Safety         3         108         Test           Marketing Basics         2         72         Test           Kardeling Basics         3         108         Exam           Refrigerated Transport and Heat Engineering Basics         4         144         Exam           Refrigerated Transport and Heat Engineering Basics         4         144         Exam           Refrigerated Transport and Heat Engineering Basics         4         144         Exam           Transport in General         4         144         Exam           Transport In General <td></td> <td>2</td> <td>72</td> <td>Test</td>		2	72	Test
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Network Information Resources			72	Test
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	State Final Examination	22	792	

8. Education Level required for the program: general (full) secondary, secondary or primary
professional education (diploma must certify the completion of general (full) secondary education course).