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
	HUMANITIES, SOCIAL	
	STUDIES AND	
	ECONOMICS	
	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	
11	Outsourcing in the Spheres of Transport Business and Logistics	Outsourcing: concept and classification. Advantages and disadvantages of outsourcing.
	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.
4	Applied Mechanics: StC 4 5.114-3(o)-3(-3(y)-6(a	

6	Information Science	
7	Chemistry	
8	Ecology	
0	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	
4	Accounting and Railway	Statistics: concept, objectives and functions. Statistic
1	Statistics	information. Railway Statistics.
0		Ergonomics: concept, objectives and methods. Ergonomic
2	Ergonomics	criteria. Economic efficiency of ergonomic measures.
	Optional Subjects	
	Metrology, Standardization	Metrology and standardization in transport process.
1	and Certification	Certification systems.
		Network architecture. Network models. Local network
2	Network Information	technology. Internet: protocols, browsers, search
-	Resources	technologies, e-mail.
	MAJOR RELATED	
	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.
	Made the Destan	Marketing as a concept of production management. Market
4	Marketing Basics	research. Product research. Marketing environment.
-	Transact During a Daging	Modern methods of transportation management. Transport
5	Transport Business Basics	business features. Organizational forms of business.
		Perishable goods (PG): storage and transportation specifics.
6	Refrigerated Transport and	Refrigeration in transport & economics. Refrigerated transport
	Heat Engineering Basics	economics. Refrigeration and heat engineering basics
7	Transport in Constant	Basic concepts of transport, transport systems. Global
7	Transport in General	development tendencies for various means of transportation.
0		Transport system in Russia. Freight and passenger traffic.
8	Transport Economics	Transport labor management. Transport fares.
0	Maana of Communication	General and other means of communication. Track structure.
9	Means of Communication	Roadbed foundation.
40	Non-traction Dolling Oters	General information about the car fleet. Car characteristics.
10	Non-traction Rolling Stock	Containers.
4.4	Deilwov Treation	General information about the rolling stock. Train motion
11	Railway Traction	theory. Train brake power.
10	Freight Management	Cargo concept. Classification of cargo. Packaging and
12	Freight Management	marking. Transportation and storage.
10	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	Railway freight fares and its classification. Container		
	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			
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	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

Compulsory Subjects	4	144	
Accounting and Railway Statistics	2	72	Test
Ergonomics	2	72	Test
Optional Subjects	2	72	
Metrology, Standardization and Certification	2	72	Test
Network Information Resources	_		
MAJOR RELATED SUBJECTS	146	5256	
Main Subjects	142	5112	
Material Science	3	108	Test
General Electrotechnics & Electronics	4	144	Exam
Human Safety	3	108	Test
Marketing Basics	2	72	Test
Transport Business Basics	3	108	Exam
Refrigerated Transport and Heat Engineering Basics	4	144	Exam
Transport in General	4	144	Exam
Transport Economics	4	144	Exam
Means of Communication	4	144	Exam
	4	144	
Non-traction Rolling Stock	5	144	Exam
Railway Traction		144	Exam
Freight Management	4		Exam
Transport & Cargo Systems	4	144	Exam
Railway Automatics, Telemechanics and Communication	4	144	Exam
Railway Stations and Junctions	13	468	Exam
Freight and Business Management	9	324	Exam
Transport Law	4	144	Exam
Transport Service	2	72	Test
Interaction Between Different Means of Transportation	4	144	Exam
Railway Transport Maintenance and Traffic Security	3	108	Exam
Railway Transport Security Technologies	3	108	Exam
Transport Safety	2	72	Test
Transport Logistics	2	72	Test
Terminal & Logistic Complexes	2	72	Test
Operating Procedure at the Border Stations	2	72	Test
Overseas High-speed Railways and Passenger Stations	2	72	Test
Business Planning of Transport	3	108	Test
Multimodal Centers for Transport & Logistics	3	108	Test
Supply Chain Management Basics	3	108	Exam
Project Management in Transport Business & Logistics	3	108	Test
Information Support for Transport Business	3	108	Exam
Variant Subjects	4	144	
Compulsory Subjects	2	72	
Container Transport System	2	72	Test
Optional Subjects	2	72	
Marketing of Transport Services	2	72	Test
Development of Perishable Goods Transportation			
Technology			
Up-to-date Reconstruction Issues of Stations and Hubs			
Physical Education	2	400	Test
Practice, Research	30		
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Practical Study	6	216	Test
Practical Study Internship	6 24	216 364	Test

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).