

Joint Stock Company "Academy of Logistics and Transport"



APPROVED
by the decision of the AC ALT from
« 30 » « Академия логистики и транспорта » 2023 (Protocol № 3)
President-Recorder
Amirgalieva S. N.

EDUCATIONAL PROGRAM

Name: 7M11353- Economy, ecology and infrastructure in high-speed rail transport

Level of training: master's degree in science and education

Code and classification of training areas: 7M113 Transportation services

Code and group of educational programs: M151 Transportation services

Date of registration in the Registry: 25.06.2021

Registration number: 7M11300053

Almaty, 2023 y.

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1. INFORMATION ABOUT THE REVIEW, APPROVAL AND APPROVAL OF THE PROGRAM, DEVELOPERS, EXPERTS AND REVIEWERS

1 DEVELOPED BY:

Academy of Logistics and Transport, Associate Professor of the Department «OTOT», Candidate of Technical Sciences, head of the EP


Vakhitova L.V.

Academy of Logistics and Transport, senior lecturer of the Department «OTOT»


Nurzhaubaev M.M.

Academy of Logistics and Transport, senior lecturer of the Department «OTOT»


Olzhabaeva R.S.

Head of the Department of Dispatching Transportation Management of Transcom LLP


Kosybaev K.K.

Student of the educational program 7M11353-EEIHSRT


Matibrakhimov A.

2 EXPERTS:

Dean of the Faculty of Engineering and Information Technologies of the Kazakh-German University, Candidate of Technical Sciences, Associate Professor


Kegenbekov Zh.K.

Director of the Transportation Organization Department of Transcom LLP


Zhumataev A.Zh.

3 REVIEWER:

Chief Engineer of the Almaty-1 station


Kuandykov E.M.

4 REVIEWED AND RECOMMENDED:

Meeting of the AC of the Department «Organization of transportation and operation of transport»
Protocol No. 6, «16» February 2023


Abibullaev S.Sh.

Meeting of the QAC-EMB of the Institute «Logistics and Management»
Protocol No. 4, «21» February 2023


Kaltaev A.K.

Meeting of the EMC
Protocol No. 4a, «29» March 2023


Zharmagambetova M.S.

5 APPROVED by the decision of the Academic Council of March 30, 2023 No. 13

6 INTRODUCED 06.11.2023

2. REGULATORY REFERENCES

The educational program is developed on the basis of the following normative legal acts and professional standards:

1. The Law of the Republic of Kazakhstan "On Education" dated July 27, 2007 No. 319-III (with amendments and additions as of March 27, 2023).
2. The National Qualifications Framework approved by the Protocol of March 16, 2016 by the Republican Tripartite Commission on Social Partnership and Regulation of Social and Labor Relations.
3. The sectoral qualifications framework of the field of "Education", approved by the Minutes of the meeting of the sectoral Commission of the Ministry of Education and Science of the Republic of Kazakhstan on social partnership and regulation of social and labor relations in the field of education and science dated November 27, 2019 No. 3.
4. State Mandatory Standard of Higher and Postgraduate Education (Order No. 66 of the Minister of Science and Higher Education of the Republic of Kazakhstan dated February 20, 2023).
5. Qualification directory of positions of managers, specialists and other employees, approved by the Order of the Minister of Labor and Social Protection of the Population of the Republic of Kazakhstan dated August 12, 2022 No. 309.
6. Rules for the organization of the educational process on credit technology of education in organizations of higher and (or) postgraduate education, approved by the Order of the Minister of the Ministry of Education and Science of the Republic of Kazakhstan No. 152 dated 20.04.2011. (with additions and amendments dated April 04, 2023 No. 145).
7. Classifier of training areas with higher and postgraduate education, approved by the Order of the Minister of Education and Science of the Republic of Kazakhstan dated October 13, 2018 No. 569 (with amendments and additions as of June 05, 2020).
8. The algorithm of inclusion and exclusion of educational programs in the Register of educational programs of higher and postgraduate education, approved by the Order of the Minister of Education and Science of the Republic of Kazakhstan dated December 4, 2018 No. 665 (with additions and amendments as of December 23, 2020 No. 536).
9. WI-ALT-33 "Regulations on the procedure for developing the educational program of higher and postgraduate education".
10. Professional standard: "Rail freight transportation: freight and commercial work (station level)", NCE RK "Atameken", approved by Order No. 256 dated 20.12.2019.
11. Professional standard: "Activity of bus stations and bus stations", NCE RK "Atameken", approved by Order No. 256 dated 20.12.2019.
12. Professional standard: "Organization of station work", NCE RK "Atameken", approved by Order No. 256 dated 20.12.2019.
13. Professional standard: "Dispatching regulation on railway transport (linear level)", NCE RK "Atameken", approved by Order No. 256 dated 20.12.2019.
14. Professional standard: "Transportation of goods by road", NCE RK "Atameken", approved by Order No. 256 dated 20.12.2019.
15. Professional standard: "Logistics of passenger transportation", NCE RK "Atameken", approved by Order No. 256 dated 20.12.2019.

3 PASSPORT OF THE EDUCATIONAL PROGRAM

№	Field name	Note
1	Registration number	7M11300053
2	Code and classification of the field of education	7M11 Services
3	Code and classification of training areas	7M113 Transportation services
4	Code and group of educational programs	M151 Transportation services
5	Name of the educational program	7M11353 - Economy, ecology and infrastructure in high-speed rail transport
6	Type of educational program	Current
7	Purpose of the educational program	Training of qualified and competitive scientific and pedagogical personnel with conceptual knowledge, capable of making decisions in scientific and professional activities based on the integration of the educational process, scientific research and innovative approaches in the field of infrastructure maintenance and operation of high-speed, high-speed railways and light rail transport.
8	ISCED level	7
9	Level according to the NQF	7
10	Level according to the IQF	7
11	Distinctive features of the EP	
	Partner University (JEP)	
	Partner University (Two-degree EP)	Technical University of Dresden, Germany
12	Form of training	full - time
13	language of education	Kazakh, Russian, English
14	Volume of credits	120
15	Academic degree awarded	Master of Science in the educational program «Economics, Ecology and infrastructure in high-speed rail transport»
16	Availability of an appendix to the license for the direction of training	KZ12LAA00025205 от 04.03.2021
17	Availability of EP accreditation	Yes
	Name of the accreditation body	Independent Agency for Quality Assurance in Education (IQAA)
	Validity period of accreditation	28.05.2022 – 27.05.2027

4 THE GRADUATE'S COMPETENCE MODEL

Objectives of the educational program:

1. Formation of a person capable of self-improvement and professional growth with diverse humanitarian and natural science knowledge and interests.
2. Formation of the ability to critically rethink the accumulated experience, change, if necessary the profile of their professional activities, awareness of the social significance of their future profession, having a high motivation to perform professional activities.
3. Formation of the ability to find a compromise between various requirements (cost, quality, safety and deadlines) in long-term and short-term planning and to make optimal decisions in the field of transportation process management, to possess a culture of thinking.
4. Formation of the ability to generalize, analyze, perceive information, set goals and choose ways to achieve it.
5. Formation of regulatory documentation for the management of transportation processes, development of technical documentation and methodological materials, proposals and measures to improve the transportation process.
6. Formation of graduates' readiness to conduct a technical and economic analysis, a comprehensive justification of the decisions taken and implemented in the field of organization of the transportation process; application of the results in practice, striving for self-development, improving their qualifications and skills.
7. Assistance in the formation of graduates' readiness for the economical and safe use of natural resources, energy and materials during the organization of the transportation process.

The purpose of the educational program: Training of qualified and competitive scientific and pedagogical personnel with conceptual knowledge, capable of making decisions in scientific and professional activities based on the integration of the educational process, scientific research and innovative approaches in the field of infrastructure maintenance and operation of high-speed, high-speed railways and light rail transport.

Learning outcomes:

- LO1 – Explain the basic laws of mathematics and scientific methods in solving engineering problems in the field of transport operation, using information and communication technologies to optimize the transportation process.
- LO2 – Apply modern methods and knowledge to ensure the safety of life, labor protection and environmental protection in the implementation of professional activities.
- LO3 – Conduct a technical and economic analysis of the activities of transport enterprises, comprehensively substantiate management decisions and evaluate the results using logistics principles.
- LO4 – To solve problems of operation and maintenance of rolling stock, automation of technological processes of transport infrastructure facilities and rational use of the material and technical base.
- LO5 – To make decisions on the organization and management of cargo and commercial work in transport, taking into account modern technical and technological processes in the logistics chain of cargo supply.
- LO6 – Perform tasks of design, reconstruction, technical equipment and development of technological processes of transport facilities with the rational use of existing throughput and processing capacity.
- LO7 – Analyze modern methods of management and organization of the operational work of the track network, technologies for optimizing the movement of car traffic and passenger traffic on the railway transport network.
- LO8 – To develop optimal schemes for the delivery of goods and passengers in the interaction of various modes of transport and technological processes of transport facilities in the conditions of the introduction of high-speed traffic.
- LO9 – Develop projects to increase the throughput, carrying and processing capacity of transport

facilities based on the analysis of their operational activities.

LO10 – Use algorithms of actions related to traffic safety and operation of transport in various situations.

LO11 – Demonstrate knowledge and skills of socio-ethical values, psychology, the role of spiritual and political processes in society, interpersonal and legal interests of the parties, protection of rights, time management, healthy lifestyle in the implementation of professional activities.

LO12 - Communicate orally and in writing in Kazakh, Russian and foreign languages, solving interpersonal, intercultural and professional tasks, relying on regulatory and technical documentation, specialized and scientific literature sources.

Field of professional activity: Designing the infrastructure of high-speed rail transport, organization and management of transportation processes on high-speed rail transport, conducting scientific research in this area.

Objects of professional activity:

- Local executive authorities in the field of railway transport and their regional structures;
- Organizations and enterprises of the transport industry in the field of management, operation, maintenance, urban rail transport and subways, as well as industrial transport;
- Organizations and enterprises of the transport industry in the field of transportation process management;
- Organizations of secondary vocational and higher education in the transport field;
- Research organizations.

Types of professional activity:

- production and technological;
- organizational and managerial;
- service and operational;
- design and survey;
- experimental research;
- settlement and design;
- scientific research;
- pedagogical.

Functions of professional activity:

- 1) participation and implementation of scientific research and technical developments;
- 2) development of measures to improve transport management systems;
- 3) implementation of the company's strategy to achieve the highest production efficiency and quality of work in the organization of transportation of passengers, cargo, cargo baggage and luggage;
- 4) analysis of the state of existing management systems and development of measures to eliminate deficiencies;
- 5) development and implementation of rational transport and technological schemes of cargo delivery based on the principles of logistics;
- 6) ensuring the safety of the transportation process in various conditions;
- 7) ensuring the implementation of existing technical regulations and standards in the field of transportation of goods, passengers and baggage;
- 8) development and implementation of systems for safe operation of transport and transport equipment, organization of vehicle traffic;
- 9) participation in the assessment of production and non-production costs for ensuring the safety of transport processes and for the development of transport and technological schemes for cargo delivery;

10) participation in monitoring the operation of transport and technological systems and control and management of traffic management systems.

List of specialist positions:

- Head of the Operational and Administrative Department;
- Deputy Head of the Operational and Administrative Department;
- Railway department attendant;
- Nodal Dispatcher;
- Train Dispatcher;
- Dispatcher for the regulation of the car fleet;
- Head of the railway station;
- Deputy Head of the railway station;
- Chief Engineer of the railway station;
- Head of the Station Technology Center for Processing Train Information and Transportation Documents;

- The duty officer of the centralization station post;
- Dispatcher shunting at the railway station;
- Head of Passenger Transportation Service;
- Specialist in the development of passenger transport infrastructure;
- Specialist in the organization of passenger transportation;
- Passenger Transportation Dispatcher;
- Specialist in conducting passenger traffic surveys;
- Manager responsible for traffic safety;
- Passenger terminal attendant;

Professional certificates obtained at the end of training; not provided

In the course of training, students undergo various types of practice and scientific work:

- pedagogical;
- research;
- research work.

Pedagogical practice. Formation of a holistic view of professional pedagogical activity aimed at the transfer of socio-cultural and professional experience through training and education, to create conditions for the personal development of students. In the course of pedagogical practice, theoretical knowledge, practical skills and skills acquired by students during lectures, seminars and practical classes, in courses of pedagogy, psychology, teaching methods and directly in the subjects of specialization become personally significant, acquire practical meaning.

Research practice. Formation of in-depth knowledge and consolidation of students' skills acquired during the development of professional training disciplines by focusing on the main directions of scientific research in the field of transport science. The objectives of the research practice are:

- systematization, consolidation and expansion of theoretical knowledge and practical skills of conducting research;
- deepening the theoretical knowledge gained in the field of transport science and their application in solving specific research tasks;
- development and stimulation of independent research skills;
- identification and formulation of current scientific problems in the field of international relations;
- search, processing, analysis and systematization of information on the research topic;
- development of research programs and organization of their implementation;
- mastering the skills of making presentations and conducting meaningful scientific discussions, assessments and examinations.

Research work of a master's student. The main task of carrying out research work is to write graduate qualified papers by undergraduates, which are performed according to the rules of writing master's papers. In addition, in the process of carrying out research work, undergraduates must prepare for publication and publish in the materials of conferences and scientific and technical journals scientific articles carried out according to the relevant rules. In accordance with the task, the entire internship period is divided into five main stages, four of them are the main ones and the last stage is the final one. It is important that from the first days of study, the undergraduate and his supervisor decide on the direction of scientific research as soon as possible. The master's student receives a task to complete the work and submits a written report on each stage to the supervisor from the department. For each stage of the work performed, the head of the practice makes assessments, on the basis of which a general assessment is formed for the entire period of research work.

Stages of research work:

1st stage – justification of the choice of the research topic, purpose, relevance and scientific novelty of the task, review of the literature published on the research topic, writing the section "Introduction" of the final qualified work;

2nd stage – justification of the choice of research methodology, its description, presentation of the results of theoretical research;

3rd stage – conducting experimental studies, processing the results obtained;

4th stage – comparative analysis of theoretical and experimental studies, conclusions and recommendations;

5th stage – presentation of the work, protection of the obtained scientific results.

Final certification (Preparation and defense of a master's thesis). The purpose of the final certification in the magistracy is to assess the achieved learning outcomes and mastered competencies upon completion of the study of the educational program of the magistracy. A master's student defends a master's thesis (project) in the presence of a positive review by the supervisor and one review by a specialist corresponding to the profile of the dissertation (project) being defended

5. MATRIX OF CORRELATION OF LEARNING OUTCOMES ACCORDING TO THE EDUCATIONAL PROGRAM WITH ACADEMIC DISCIPLINES/MODULES

№	Name of the discipline	Number of credits	Matrix of correlation of learning outcomes according to the educational program with academic disciplines												LO12
			LO1	LO2	LO3	LO4	LO5	LO6	LO7	LO8	LO9	LO10	LO11		
1	2	4	5	6	7	8	9	10	11	12	13	14	15	16	
1	History and philosophy of science	3			+										
2	Foreign language (professional)	3			+										
3	Higher school pedagogy	3	+												
4	Management Psychology	3		+											
5	System analysis	3					+								
6	Organization of design and survey activities	4								+					
7	Organization and management of production activities	3						+							
8	Environmental assessment of design solutions	4									+				
9	Theory of transport systems, modeling	3				+									
10	Economics of the HSR	4							+						
11	Pedagogical practice	2	+	+	+	+	+	+	+	+	+	+	+	+	
12	Methods of scientific research	4			+									+	
13	Organization of operation and management of train traffic on the HSR	4												+	
14	Infrastructure of high-speed highways	4													
15	Public transport planning	5								+					
16	Transport security and management technology	5												+	
17	Transport ecology and its processes	5													
18	Research practice	10	+	+	+	+	+	+	+	+	+	+	+	+	
19	Rolling stock of high-speed highways	3							+						
20	Interaction of track and rolling stock	3							+						
21	Passenger complex of high-speed highways	4													
22	Technology and organization of passenger transportation	4												+	
23	Theory of electric transport systems	5												+	
24	Transport management and logistics business	5						+							
25	Secure circuits, computer and communication technologies	5					+								
26	Research work of a master's student	24	+	+	+	+	+	+	+	+	+	+	+	+	
27	Final certification: Preparation and defense of a master's thesis	12	+	+	+	+	+	+	+	+	+	+	+	+	

6. THE STRUCTURE OF THE MAIN EDUCATIONAL PROGRAM OF THE MASTER'S DEGREE IN THE SCIENTIFIC AND PEDAGOGICAL DIRECTION

№	Name of cycles of disciplines and types of activities	Total labor intensity	
		in academic hours	in academic credits
1	2	3	4
1.	Theoretical training	2520	84
1.1	Cycle of basic disciplines (BD)	1050	35
1)	University component (UC):	600	20
	History and philosophy of science	90	3
	Foreign language (professional)	90	3
	Higher school pedagogy	90	3
	Management Psychology	90	3
	Organization and management of production activities	90	3
	Theory of transport systems, modeling	90	3
	Pedagogical practice	60	2
2)	Component of choice	450	15
1.2	Cycle of profile disciplines (PD)	1470	49
1)	University component (UC):	1470	49
	Methods of scientific research	120	4
	Organization of operation and management of train traffic on the HSR	120	4
	Infrastructure of high-speed highways	120	4
	Public transport planning	150	5
	Transport security and management technology	150	5
	Transport ecology and its processes	150	5
	Organization of design and survey activities	120	4
	Environmental assessment of design solutions	120	4
	Economy of high-speed highways	120	4
	Research practice	300	10
2.	Research work of a master's student	720	24
1)	Research work of a master's student, including internship and completion of a master's thesis	720	24
3	Additional types of training (ATT)	-	-
4	Final certification (FC)	360	12
1)	Preparation and defense of a master's thesis (PDMT)	360	12
	Total	3600	120

STUDY PLAN

Form of study: full-time

Duration of study: 2 years

Admission: 2023

Direction of training: 7M113 - Transportation services

Group of educational programs: M151 - Transportation services

Name of the educational program: 7M11353 - Economics, ecology and infrastructure in high-speed railway

Degree: Master of Science



№	Discipline code	Name of cycles and disciplines	Total labor intensity		Form of control, semester		The amount of study load, contact hours				Distribution by semester				Securing the chair							
			in academic hours	in academic credits	Exam	KP (KR)	Total hours	Classroom			1 course		2 course									
								lectures	practical	laboratory	IWSU	IWSU	15 weeks	15 weeks		15 weeks	15 weeks					
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
CYCLE OF BASIC DISCIPLINES (BD)																						
1.1	University component		600	20	7	0	600	75	105	0	48	312	15	5	0	0						
1.1.1	23-0-M-VK-IFN	History and philosophy of science	90	3	1		90	15	15		8	52	3									SHDPE
1.2	23-0-M-VK-IYA(P)	Foreign language (Professional)	90	3	1		90		30		8	52	3									LT
1.3	23-0-M-VK-PVSh	Pedagogy of higher education	90	3	1		90	15	15		8	52	3									SHDPE
1.4	23-0-M-VK-PU	Managerial Psychology	90	3	1		90	15	15		8	52	3									OTOT
1.5	23-53-M-KV-OUP	Organization and management of production activity	90	3	1		90	15	15		8	52	3									OTOT
1.6	23-53-M-VK-TTSM	Transportation Systems Theory, Modelling	90	3	2		90	15	15		8	52			3							OTOT
1.7	23-0-M-VK-PedPr	Pedagogical practice	60	2			60								2							SHDPE
1.2	Component of choice		450	15		0	450	90	60	0	32	268	3	7	5	0						
2.1	23-0-M-KV-PSVSM	High speed rolling stock	90	3	2		90	15	15		8	52		3								RS
	23-53/46-M-KV-VPPS	Interaction of track and rolling stock																				RS
2.2	23-53-M-KV-PKVSMS	Passenger Complex of High-speed Railways	120	4	2		120	30	15		8	67		4								OTOT
	23-53-M-KV-TOPP	Technology and Organization of Passenger Transportation																				
2.3	23-53-M-KV-TETS	Theory of Electric Transport Systems	150	5	3		150	30	15		8	97			5							TUD
	23-53-M-KV-UTLB	Management of Transport and Logistics Business																				
	23-53-M-KV-BTKKT	Safe Circuits, Computer and Communication Technology																				
2.4	23-0-M-KV-TVMS	Probability theory and mathematical statistics	90	3	1		90	15	15		8	52	3									GE
	23-0-M-KV-SA	System analysis																				GE
TOTAL FOR THE CYCLE of BD			1050	35	7	0	1050	165	165	0	80	590	18	12	5	0						
CYCLE OF PROFILE DISCIPLINES (PD)																						
2.1	University component		1590	53	18	0	1590	270	135	0	72	693	12	19	22	0						
1.1.1	23-0-M-VK-MNI	Research methods	120	4	1		120	30	15		8	67	4									OTOT
1.1.2	23-53-M-VK(KV)-OEUDP	Organization of Operation and Control of Train Traffic on High-Speed Railway Lines	120	4	2		120	30	15		8	67		4								OTOT
1.1.3	23-0-M-VK(KV)-IVSM	High-Speed Railway Infrastructure	120	4	2		120	30	15		8	67		4								CE
1.1.4	23-0-M-VK-IsPr	Research practice	210	7			210							7								OTOT
1.1.5	23-50-M-VK-PROT	Operation Planning in Public Transport	150	5	3		150	30	15		8	97			5							TUD
1.1.6	23-53-M-VK-TBTU	Transport Safety and Control Technology	150	5	3		150	30	15		8	97			5							TUD
1.1.7	23-0-M-VK(KV)-TEEP	Transport Ecology and its Processes	150	5	3		150	30	15		8	97			5							TUD
1.1.8	23-53-M-VK-OPID	Organisation of Survey and Design Work	120	4	1		120	30	15		8	67	4									CE
1.1.9	23-53-M-VK-EVSGD	High-Speed Railway Economics	120	4	2		120	30	15		8	67		4								LTM
1.1.10	23-0-M-VK(KV)-EOPR	Environmental Assessment of Design Solutions	120	4	1		120	30	15		8	67	4									MVaTS
1.1.11	23-0-M-VK-IsPr 2	Research practice 2	210	7			210								7							OTOT
TOTAL FOR THE CYCLE of PD			1590	53	18	0	1590	270	135	0	72	693	12	19	22	0						
TOTAL FOR THE THEORETICAL COURSE OF STUDY			2640	88			2640	435	300	0	152	1273	30	31	27	0						
3	23-0-M-VK-NIRM	Experimental research work of a master's student, including internship and implementation of a master's project	720	24			720								4	13	7					
4	23-0-M-VK-OZMD	Registration and protection of the master's project	240	8			240										8					
TOTAL FOR THE ENTIRE PERIOD OF STUDY			3600	120			3600	435	300	0	152	1273	30	35	40	15						
ADDITIONAL TYPES OF TRAINING (AT):																						
5	ADDITIONAL TYPES OF TRAINING																					

AGREED:

Vice-Rector for AA Zharnagambetova M.S.

Director DAPQ Lipskaya M.A.

DEVELOPED BY:

Director of the Institute "LaN" Kaltayev A.K.

Acting head of the department "OTOT" Abibullaev S.Sh.

8. CATALOG OF DISCIPLINES OF THE UNIVERSITY COMPONENT

EDUCATIONAL PROGRAM

7M11353 - Economy, ecology and infrastructure in high-speed rail transport

**Education level: Master's degree
(scientific and pedagogical direction)**

Duration of study: 2 years

Year of admission: 2023

Module	Cycle	Component	Name of the discipline	Total labor intensity		Term	Learning outcomes	Brief description of the discipline	Prerequisites	Post-requirements
				in academic hours	in academic credits					
1	2	3	4	5	6	7	8	9	10	11
Module 1 - Personal and socio-humanitarian competencies	BD	UC 1	History and philosophy of science	90	3	1	LO3	The discipline studies the history, philosophy and methodology of science. Undergraduates are given knowledge on the history of science and private sciences, which provide an opportunity to understand the dynamics of the development of science. The philosophy of science allows us to reveal the foundations of science as a system of scientific knowledge that forms public consciousness. The methodology of science makes it possible to understand the methodological foundations and problems of modern science for the development of a methodological culture of research work of future specialists.	Bachelor's degree disciplines	Research work, Research practice, final certification
	BD	UC 2	Foreign language (professional)	90	3	1	LO3	The discipline "Foreign Language" (professional) includes mastering professional English at an advanced level (for non-linguistic areas). The study of grammatical characteristics of scientific style in its oral and written forms. Professional oral communication in monological and dialogical form according to the educational program. Ability to demonstrate the results of research in the form of reports, abstracts, publications and public discussions, interpret and present the results of scientific research in a foreign language.	Bachelor's degree disciplines	Research work, Research practice, final certification
	BD	UC 3	Higher school pedagogy	90	3	1	LO1	The discipline is aimed at studying the theoretical and methodological foundations of higher school pedagogy; examines the modern paradigm of higher education and the system of higher professional education in the Republic of Kazakhstan; studies didactics and the process of education in high school; forms an understanding of the basic principles of modern pedagogy and methodological approaches to solving pedagogical problems; professional competence and skills necessary for the implementation of full-fledged pedagogical activity; develops management skills of the educational process.	Bachelor's degree disciplines	Research work, final certification
	BD	UC 4	Management Psychology	90	3	1	LO2	The discipline is aimed at studying the theoretical and methodological foundations of management psychology; the main socio-psychological management problems necessary for the analysis and forecasting of management effectiveness, optimization of managerial relationships and decisions; familiarization with the methods of studying important socio-psychological characteristics of the individual and the team, professional, interpersonal and intrapersonal problems by means of management psychology; formation of systemic ideas about the psychological aspects of the management of various types of joint activities and interpersonal communication.	Bachelor's degree disciplines	Research work, final certification
	BD	UC 7	Pedagogical practice	60	2	2	LO1-	Педагогическая практика нацелена на формирование комплексной	Bachelor's	Research work,

							LO12	психолого-педагогической, методической и информационно-технологической деятельности в ВУЗе, а также направлена на выработку у обучающихся навыков разработки учебного курса, самостоятельного проведения различных форм занятий и на приобретение опыта организационной и воспитательной работы.	degree disciplines	Research practice, final certification
Module 2 - Research competencies	PD	UC 1	Methods of scientific research	120	4	1	LO3	The discipline is aimed at studying the methodology and methodology of scientific research. Within the framework of the discipline, various levels of scientific knowledge are considered, the stages of research work are highlighted, including the choice of research direction, the formulation of a scientific and theoretical problem, the conduct of theoretical and experimental research, recommendations for the design of the results of scientific work. The basics of inventive creativity, patent search and the approximate plan of the master's thesis are also considered.	Bachelor's degree disciplines	Theory of transport systems, modeling, Research work, Research practice, final certification ИА
	PD	UC 10	Research practice	300	10	2,3	LO1-LO12	The purpose of the research practice is to familiarize with the process and stages of conducting research work; choosing the direction of the topic, object and subject of research; acquiring the skills to formulate the goals and objectives of scientific research; acquisition of skills in planning research work; search for literary sources and work with scientific literature; study of the methodology of presentation of the content of the dissertation and the features of its statistics; acquisition of skills to formulate conclusions and suggestions obtained as a result of research work; acquisition of skills in the design of written research papers, including master's theses.	History and philosophy of science, System analysis, Theory of transport systems, modeling	Research work, Research practice, final certification
	BD	UC 5	Системный анализ	90	3	1	LO4	Дисциплина изучает вопросы, заключающиеся в проведении исследования путем выполнения последовательности заранее спланированных действий как с любыми переменными или постоянными объектами исследования, так и со сложными системами. Объектами могут выступать разнообразные проблемы, обнаруживаемые при разработке новых и функционировании ранее созданных систем, так и выявляемые в самих процессах подготовки, и принятия решений.	Bachelor's degree disciplines	Theory of transport systems, modeling, Theory of electric transport systems, Secure circuits, computer and communication technologies, Research work, Research practice, final certification
Module 3 - Economic and managerial competencies	BD	UC 5	Organization and management of production activities	90	3	1	LO6	Familiarization with the essence of a transport and logistics enterprise as an economic entity, its role in the system of the national economy. Solving issues in the field of organizational and managerial activities of transport and logistics enterprises. Determination of general and specific conditions of production activity for transport enterprises, including high-speed rail transport, depending on the organization of work, form of ownership, management structure and staffing. Development of a production management strategy.	Bachelor's degree disciplines	Economy of high-speed highways, Rolling stock of high-speed highways, Organization of operation and management of train traffic on the HSR, Transport management and logistics business
	PD	UC 8	Economy of high-speed highways	120	4	2	LO6	The discipline defines the essence and role of innovation in the economy; goals and objectives of subjects of innovative activity in transport; allows you to study the mechanisms of state, market regulation of innovative processes in the transport economy; it helps to master the mechanisms of effective innovation management, management of the creation of technological innovations in transport, aimed at increasing traffic speeds and reducing the delivery time of passengers and cargo.	Organization and management of production activities	Public transport planning, Transport management and logistics business
Module 4 - Professional	BD	UC 5	Organization of design and survey activities	120	4	1	LO8	The purpose of mastering the discipline is the formation of theoretical knowledge on legislative and regulatory support of survey and design and	Bachelor's degree	Infrastructure of high-speed highways,

competencies												
										construction activities, as well as practical skills in the design of transport facilities. The discipline allows you to gain knowledge in the field of registration, regulatory and technical support of design, survey and construction works; to master modern methods and means of organizing design and survey activities in transport.	disciplines	Passenger complex of high-speed highways; Rolling stock of high-speed highways, Interaction of track and rolling stock
	PD	UC 9	Environmental assessment of design solutions	120	4	1	LO9			The discipline examines the negative impacts of railway transport facilities on the atmosphere, water, soil, flora and fauna, as well as the basics of monitoring and assessment of harmful effects on the atmosphere, flora and fauna, soil cover, waste management, water consumption and sanitation. Organization of environmental impact assessment, environmental assessment and environmental protection measures at high-speed rail transport facilities.	Bachelor's degree disciplines	Transport ecology and its processes, Transport security and management technology
	BD	UC 6	Theory of transport systems, modeling	90	3	2	LO4			Application of modeling methods for the study of transport processes and systems. Acquisition of practical skills in organizing research based on mathematical methods of finding solutions and determining the functional purpose of simulation models. Making optimal management decisions on the selection and justification of rational ways of organizing the transport process and performing transport tasks in terms of cost, traffic safety, capacity and other factors.	Methods of scientific research, System analysis	Transport security and management technology, Organization of operation and management of train traffic on the HSR, Theory of electric transport systems, Secure circuits, computer and communication technologies
	PD	UC 2	Organization of operation and management of train traffic on the HSR	120	4	2	LO11			Study of the organization and management of train traffic, as well as the safe operation of high-speed highways; operational planning and dispatching regulation of the transportation process on sections of high-speed highways, the development of a rational system for the organization of train traffic, car traffic and passenger traffic on high-speed routes. Development of measures to increase the capacity of sections of high-speed highways, drawing up a train schedule and analyzing the performance of its indicators.	Organization and management of production activities, Theory of transport systems, modeling	Public transport planning, Passenger complex of high-speed highways, Technology and organization of passenger transportation
Module 4 - Professional competencies	PD	UC 3	Infrastructure of high-speed highways	120	4	2	LO8			The discipline allows you to gain fundamental knowledge in the field of design, construction, operation and repair of infrastructure facilities of high-speed rail transport. Acquire skills in solving practical problems related to the security of infrastructure facilities. To form professional competencies in the issues of diagnostics, tests and surveys of building structures, the examination of technical documentation, supervision, control of the state of infrastructure facilities of high-speed highways.	Organization of design and survey activities	Transport security and management technology
	PD	UC 4	Public transport planning	150	5	3	LO11			Obtaining knowledge of the elements of the operational work of public transport for drawing up long-term plans, technological processes, timetables and operational management/ supervision/ control. Study of methods and procedures for planning, monitoring, and determining the efficiency of operational work of public transport. Investigation of the relationship between capacity and quality in the field of public transport operation. Application of models and procedures to verify the effectiveness of its work.	Economy of high-speed highways, Organization of operation and management of train traffic on the HSR, Passenger complex of high-speed	Research work, Research practice, final certification

									highways, Technology and organization of passenger transportation	
	PD	UC 5	Transport security and management technology	150	5	3	LO10	The discipline studies the theoretical, conceptual, methodological and organizational foundations of transport security, classification and characterization of the constituent elements of transport security and anti-terrorist activities, reveals the essence and significance of transport security, its place in the national security system, examines the analysis and assessment of the state of transport security and measures to ensure security in the management and operation of transport systems.	Theory of transport systems, modeling, Infrastructure of high-speed highways, Interaction of track and rolling stock, Passenger complex of high-speed highways, Technology and organization of passenger transportation	Rolling stock of high-speed highways, Research work, Research practice, final certification
	PD	UC 6	Transport ecology and its processes	150	5	3	LO9	The discipline considers the basic requirements for the quality of soils, air and water environment, regulatory and legal acts in the field of environmental protection, technical methods for reducing the harmful effects of rail transport on the atmosphere, hydrosphere, soil, as well as methods for reducing energy pollution: noise, electromagnetic and other types of pollution. Economic stimulation of environmental measures in transport, economic damage and the effect of the introduction of environmental measures.	Environmental assessment of design solutions	Research work, Research practice, final certification

9. CATALOG OF DISCIPLINES OF THE COMPONENT BY CHOICE

EDUCATIONAL PROGRAM

7M11353 - Economy, ecology and infrastructure in high-speed rail transport

**Education level: Master's degree
(scientific and pedagogical direction)**

Duration of study: 2 years

Year of admission: 2023

Module	Cycle	Component	Name of the discipline	Total labor intensity		Term	Learning outcomes	Brief description of the discipline	Prerequisites	Post-requirements
				in academic hours	in academic credits					
1	2	3	4	5	6	7	8	9	10	11
Module 2 – Research competencies			Probability theory and mathematical statistics	90	3	1	LO4	Probability theory and mathematical statistics studies the simplest theorems of probability theory, systems of random variables, mathematical models for analyzing random phenomena for their adequate description and understanding, methods for solving standard problems using basic analytical tools, mathematical methods for constructing probable models and implementing these methods on real problems of natural science, practical activity and statistical processing of real data	Bachelor's degree disciplines	Theory of electric transport systems, Safe circuits, computer and communication technologies, Theory of transport systems, modeling
			System analysis				LO4			
Module 3 - Economic and managerial competencies	BD	EC3	Theory of electric transport systems	150	5	3	LO5	The basics of the theory of electric traction are described, traction electric drive systems for different types of electric rolling stock are considered, methods for calculating traction power supply systems and traction substations. The basic schematic diagrams of the traction electric drive and traction substations when using direct and alternating current are given. The analysis of possible operating conditions of electric transport in steady-state and transient modes is illustrated by graphs.	System analysis; Theory of transport systems, modeling	Research work, Research practice, final certification
			Transport management and logistics business				LO6			

								Application of modern information and communication technologies in the transport complex. Study of requirements for elements of computer and communication technologies used in transport to ensure traffic safety, technical and organizational measures to ensure cybersecurity in transport. Acquisition of skills in failure analysis, fault analysis, reliability analysis of technical means and communication technologies. Application of security risk analysis methods and control mechanisms over them.		
Module 4 - Professional competencies	BD	EC1	Secure circuits, computer and communication technologies	90	3	2	LO5		System analysis; Theory of transport systems, modeling	Research work, Research practice, final certification
			Rolling stock of high-speed highways				LO7	The discipline allows you to study the world concepts of the development of the design of modern rolling stock, safety and environmental friendliness of the operation of high-speed railway rolling stock. Develops skills and abilities in creating, designing, operating, conducting diagnostics, identifying reserves, determining the causes of malfunctions and deficiencies in operation, as well as taking measures to eliminate them and improve the efficiency of using modern high-speed railway rolling stock.	Organization and management of production activities	Transport security and management technology
	Interaction of track and rolling stock	LO7	Study of the structural features of a railway track, mechanical processes occurring in rolling stock and in a railway track when they are exposed to each other, deformations and mechanical stresses arising in interacting structures. Formation of professional competencies in the application of methods for calculating and evaluating the strength of rolling stock and track based on knowledge of the laws of statics and dynamics of solids.	Organization of design and survey activities	Transport security and management technology					
	Passenger complex of high-speed highways	LO12	Organization of work and operation of the passenger complex of high-speed highways. Improvement of technology and development of facilities of the passenger complex of railways and high-speed highways. Technology of operation of station complexes, intermediate separate points, head passenger and passenger technical stations. The placement of the main devices and structures at separate points, as well as the placement of stations in urban conditions. Determination of technological standards for the performance of train handling operations.	Organization of design and survey activities	Public transport planning, Transport security and management technology					
BD	EC2		120	4	2					
Technology and organization of passenger transportation		LO12				The discipline considers the issues of development of modern transport complexes of cities and regions, rational interaction of various modes of transport in the organization of transportation of passengers, baggage, cargo and mail. Allows you to gain skills in planning and distributing passenger traffic on the transport network, developing optimal options for the formation plan and schedule of passenger trains and analyzing the performance of operational indicators of passenger transportation on high-speed rail transport.	Organization of operation and management of train traffic on the HSR	Public transport planning, Transport security and management technology		

EXPERT OPINION

on the educational program 7M11353 – Economy, ecology and infrastructure in high-speed rail transport

Educational program «7M11353 – Economy, ecology and infrastructure in high-speed rail transport» is implemented through a sequence of studied disciplines, with the establishment of specific tasks and target indicators. Interdisciplinary interaction is clearly traced, which consists in a complex connection between the content of individual academic disciplines, through which the internal unity of the specialist training program is achieved.

The curriculum of the educational program defines the list of disciplines of the compulsory component and the elective component, reflects the complexity of each academic discipline in credits, traces the sequence of studying disciplines, reflects the types of training sessions and forms of control. The list of disciplines of the educational program includes modules studying the environmental situation and ensuring safe working conditions at enterprises of the transport and communication complex, which is currently relevant.

Educational trajectories are developed in accordance with the requirements of the transport and communication industry. The catalogues of university and elective modules include disciplines that allow you to master the basic personal and professional competencies, as well as perform labor functions reflected in the professional standards of the transport industry. When compiling catalogs of the university component and the component of choice, the opinions of employers' representatives on the naming of disciplines, the sequence of their study and the internal content of disciplines are taken into account. It is planned to conduct part of practical classes in specialized disciplines at the production base (a branch of the department in production).

The purpose of the educational program is relevant, formulated quite succinctly and combines the learning outcomes. The description of the disciplines reflects their goals and content, indicators of achievement of learning outcomes in this educational program. Also, the educational program, developed on the basis of a professional standard, reflects the main labor functions in competencies and learning outcomes, indicates the types of relations with employers: guest lectures, lectures by leading top managers, the presence of branches of departments on the basis of organizations.

Thus, the educational program «7M11353 – Economy, ecology and infrastructure in high-speed rail transport» submitted for examination in the direction of training personnel «Transport services» fully complies with the requirements of the State Mandatory Standard of Education, has a clear sequence in development, meets modern labor market demands, professional standards and can be implemented for training personnel under the educational program 7M11353 – Economy, ecology and infrastructure in high-speed rail transport in the direction of personnel training 7M113-Transport services.

Expert
Director of the Transportation Organization
Department of Transcom LLP



Zhumataev A.Zh.

EXPERT OPINION

on the educational program 7M11353 – Economy, ecology and infrastructure in high-speed rail transport

Implementation of the educational program «7M11353 – Economy, ecology and infrastructure in high-speed rail transport» is carried out through a sequence of studied disciplines, with the establishment of specific tasks and target indicators. Interdisciplinary interaction is clearly traced, which consists in a complex connection between the content of individual academic disciplines, through which the internal unity of the specialist training program is achieved.

The curriculum of the educational program defines a list of all academic disciplines of the mandatory component and the elective component, the complexity of each academic discipline in credits, the sequence of their study, types of training sessions and forms of control. It is important to study the environmental situation and ensure safe working conditions at the enterprises of the transport and communication complex and research centers.

Educational trajectories are developed in accordance with the requirements of the transport and communication industry. The catalogues of university and elective modules include disciplines that allow you to master the basic personal and professional competencies, as well as perform labor functions reflected in the professional standards of the transport industry.

The purpose of the educational program is relevant, formulated quite succinctly and combines the learning outcomes. The description of the disciplines reflects their goals and content indicators of achievement of learning outcomes in this educational program. Also, the educational program, developed on the basis of a professional standard, reflects the main labor functions in competencies and learning outcomes, indicates the types of relations with employers: guest lectures, lectures by leading top managers, the presence of branches of departments on the basis of organizations.

Thus, the educational program «7M11353 – Economy, ecology and infrastructure in high-speed rail transport» submitted for examination in the direction of training personnel "Transport services" fully complies with the requirements of the State Mandatory Standard of Education, has a clear sequence in development, meets modern labor market demands, professional standards and can be implemented for training personnel under the educational program 7M11353 – Economy ecology and infrastructure in high-speed rail transport in the direction of personnel training 7M113-Transport services.

Expert

*Dean of the Faculty of Engineering and
Information Technologies of the
Kazakh-German University,*

Candidate of Technical Sciences, Associate Professor



Kegenbekov Zh.K.

Review

of the educational program
7M11353-Economy, ecology and infrastructure in high-speed rail transport in the direction of
personnel training 7M113-Transport services

The bachelor's degree program «7M11353-Economy, ecology and infrastructure in high-speed rail transport» contains the following information: graduate qualification, form and duration of training, direction and characteristics of graduates' activities, a complete list of competencies that a graduate should possess as a result of mastering this educational program is given.

The disciplines of the curriculum according to the reviewed educational program form the entire necessary list of general cultural and professional competencies provided for by the State Mandatory Standard of Education for the relevant types of activities.

The curriculum of the educational program defines a list of all academic disciplines of the mandatory component and the elective component, the complexity of each academic discipline in credits, the sequence of their study, types of training sessions and forms of control. The catalog of elective disciplines, the Catalog of the intra-university component fully reflect the continuity of disciplines, among which the following disciplines should be noted: «Rolling stock of high-speed highways», «Interaction of track and rolling stock», «Passenger complex of high-speed highways», «Technology and organization of passenger transportation», etc.

The sequence of studying disciplines is observed, disciplines necessary for production and technological process are included.

The content of the work programs of academic disciplines and practices allows us to conclude that it corresponds to the competence model of the graduate.

The educational program provides professional and practical training of students in the form of practice. The content of the practice programs testifies to their ability to form the practical skills of students.

To develop the educational program, experienced teaching staff, leading representatives of the employer, students were involved, their requirements were taken into account when forming the disciplines of the professional cycle.

Conclusion:

In general, the reviewed educational program meets the basic requirements of the State Mandatory Standard of Education, the national qualifications framework, the industry qualifications framework, professional standards, the Atlas of New Professions and contributes to the formation of general cultural and professional competencies in the field of personnel training 7M113-Transport services.

Reviewer

Chief Engineer of the Almaty-1 station

Kuandykov E.M.



To the President-Rector
of the Academy of Logistics and Transport
S.N. Amirgalieva

AZURITE RAILWAY
SOLUTIONS LLP
WWW.AZURITE.TRADE

Dear Saltanat Nuradilovna!

The management of «AZURITE RAILWAY SOLUTIONS» (АЗУРИТ РЭЙЛУЭЙ СОЛЮШНС) LLP, represented by General Director Sharubekov M.N., got acquainted with the content of the educational program 7M11353 - "Economy, ecology and infrastructure of high-speed rail transport".

The educational program (EP) is relevant because the introduction of high-speed traffic in Kazakhstan is a priority task for the development of the transport industry. EP meets the requirements of the modern market. The structure of the EP includes disciplines that study transport economics, environmental issues, as well as issues of transport infrastructure development. After reviewing the content of the educational program, we recommend the following:

- in order to introduce innovative technologies into the educational process according to the educational program, it is recommended to use software products that allow performing research work of undergraduates;

- in order to achieve certain competencies, it is necessary to provide for the passage of students of all types of internships and practices on the basis of railway transport organizations;

- to achieve the result of training in the formulation of methods of assessment analysis, forecasting and improvement of transport systems, it is necessary to strengthen the content of the studied disciplines in relation to scientific analysis and analytical work;

It is also necessary to strengthen the content of the studied disciplines in the following areas:

- analysis of the results of the work of transport enterprises;
- identification of problematic issues in management and transportation activities;
- forming knowledge and skills of special sections of mathematics and economics, in the study of which software products are used.

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4TH FLOOR,
15 REPUBLIC SQUARE,
ALMATY,
KAZAKHSTAN

**General Director
of «AZURITE RAILWAY SOLUTIONS»
(АЗУРИТ РЭЙЛУЭЙ СОЛЮШНС) LLP**



Sharubekov M.N.

13. PROTOCOLS OF REVIEW AND APPROVAL

Академия логистики и транспорта

ПРОТОКОЛ № 6

Заседания

Академического комитета по образовательной программе и ведущих преподавателей
кафедры «Организация перевозок и эксплуатация транспорта»

г. Алматы

«16» февраля 2023 года

Председатель: Абибуллаев С.Ш.

Секретарь: Суйенишова М.

Присутствовали: И.о. зав.кафедрой «ОПЭТ», ассистент-профессор Абибуллаев С.Ш.; ассоциированные профессора: Альтаева Ж.Ж., Вахитова Л.В.; ассоциированные профессора АлиТ: Мусабаев Б.К., Молгаждаров А.С.; ассистент-профессоры: Избаирова А.С., Муратбекова Г.В.; сениор-лекторы: Бекмагамбетова Л.К., Нуржаубаев М.; Лектор: Алданазаров К.Т., специалист Суйенишова М.Е.

Представители с производства: Начальник отдела АСУ, филиал ТОО «КТЖ-Грузовые перевозки» - «Алматинское отделение ГП» - Абдреев Г.А., Начальник станции Алматы-1, филиал ТОО «КТЖ-Грузовые перевозки» - «Алматинское отделение ГП» - Садыков Б.А., Начальник отдела диспетчерского управления перевозками ТОО «Транском» - Косымбаев К.К., Генеральный директор ТОО «Azurite Railway Solutions» - Шарубеков М.Н., Начальник регионального центра управления движением поездов по Юго-Восточному региону ТОО «КТЖ-Грузовые перевозки» - Турғалиев А.Е., Начальник вокзала Алматы-2 – Акпанов Б.Б.

Обучающиеся: обучающийся группы УС-ОП-21-Эр Мусин Д.А., обучающийся группы МН-ЭЭИВЖТ-22-1 Муратбеков Б.Н., обучающийся группы МН-ОПДЭТ-22-1 Асанов А.Ж.

ПОВЕСТКА ДНЯ:

1. Рассмотрение компетентностной модели выпускника
2. Рассмотрение возможности включения дисциплин в КЭД и РУП

По первому вопросу

ВЫСТУПИЛ:

И.О. зав.кафедрой Абибуллаев С.Ш. предложил рассмотреть компетентностную модель выпускника по 3 уровням образования: бакалавриат, магистратура, докторантура. Представлены образовательные программы 6В11326-ОПДЭТ, 7М11351/52-ОПДЭТ, 7М11353-ЭЭИВЖТ, 8Д11361-ОПДЭТ.

Компетентностная модель выпускника включает в себя следующие части:

- Цель и задачи образовательной программы;
- Результаты обучения;
- Область, объекты, виды и функции профессиональной деятельности;
- Перечень должностей по образовательной программе;
- Профессиональные сертификаты, полученные по окончании обучения;
- Требования к предшествующему уровню образования.

ВЫСТУПИЛ:

Представитель работодателей: Садыков Б.А., который предложил в силу специфики их организации отразить в объектах профессиональной деятельности следующее: процессы организации и управления эксплуатационной деятельности пассажирского и грузового транспорта.

ВЫСТУПИЛ:

Ассоциированный профессор АЛИТ Молдаждаров А.С., который предложил образовательных программах учесть проведение ряда практических занятий на производственной базе, в филиале кафедры в филиале «ТОО-Грузовые перевозки» - «Алматинское отделение ГП». Кроме того, следует внести в учебные планы актуализированные дисциплины, которые требуют согласования с представителями работодателей.

После рассмотрения компетентностной модели выпускника было предложено утвердить данную Модель по 3 уровням образования для образовательных программ 6В11326-ОПДЭТ, 7М11351/52-ОПДЭТ, 7М11353-ЭЭИВЖТ, 8Д11361-ОПДЭТ.

ПОСТАНОВИЛИ: Представить компетентностную модель выпускника по 3 уровням образования: бакалавриат, магистратура, докторантура по образовательным программам 6В11326-ОПДЭТ, 7М11351/52-ОПДЭТ, 7М11353-ЭЭИВЖТ, 8Д11361-ОПДЭТ для рассмотрения и утверждения на Совете института «Логистика и управление».

По второму вопросу

ВЫСТУПИЛ: И.о. зав.кафедрой Абибуллин С.Ш. с предложением заслушать представителей работодателей и обучающихся по включению новых дисциплин в КЭД и РУП приема 2023г.

ВЫСТУПИЛ: представитель работодателей Косыбаев К.К.

Организации заинтересованы в специалистах, имеющих хороший уровень подготовки и знаний в области организации перевозок, движения и эксплуатации транспорта. Вносим предложения о внесении в РУП следующих востребованных дисциплин: Наименование дисциплины для внесения в ОП 6В11326-ОПДЭТ: «Организация эксплуатационной работы железнодорожного участка»; «Пассажирский транспортный комплекс»; «Транспортная безопасность и системы управления движением поездов»; «Проектирование и эксплуатация железных дорог» (Устройство ж.д. пути (было не в полном объеме)).

ВЫСТУПИЛ: представитель работодателей Шарубеков М.Н. Вносим предложения о внесении в РУП следующих востребованных дисциплин для образовательных программ магистратуры. Наименование дисциплин для внесения в ОП 7М11351/52-ОПДЭТ: «Интеллектуальные транспортные системы»; «Методы принятия управленческих решений»; «Моделирование работы транспортных узлов»; «Транспортная безопасность».

ВЫСТУПИЛИ: представители работодателей Турдалиев А.Е., Акпанов Б.Б.

Организации заинтересованы в специалистах, имеющих хороший уровень подготовки и знаний в области организации перевозок, движения и эксплуатации транспорта. Вносим предложения о внесении в РУП следующих востребованных дисциплин: Наименование дисциплин для внесения в ОП 6В11326-ОПДЭТ: «Особые условия перевозок грузов»; «Организация работы оперативного персонала»; «Управление работой грузовой станции»; «Оптимизация транспортных потоков». Наименование дисциплин для внесения в ОП 7М11351/52-ОПДЭТ: «Прогнозирование и организация транспортных потоков»; «Бережливое производство»; «Смарт-технологии на транспорте»; «Система организации транспортных потоков».

ВЫСТУПИЛ: обучающийся Мусин Д.А.

Для нашего общего развития и формирования soft-skills считаем необходимым включить в РУП следующие дисциплины: «Тайм-менеджмент»; «Управленческая экономика».

ПОСТАНОВИЛИ:

1. Информацию принять к сведению;
2. Учесть предложения и рекомендации работодателей и обучающихся;
3. Рассмотреть включение в РУП следующие дисциплины:

Наименование дисциплины для внесения в ОП 6В11326-ОПДЭТ:

1. Организация эксплуатационной работы железнодорожного участка;
2. Пассажирский транспортный комплекс;
3. Транспортная безопасность и системы управления движением поездов;
4. Проектирование и эксплуатация железных дорог (Устройство ж.д. пути (было не в полном объеме)).
5. Особые условия перевозок грузов.
6. Организация работы оперативного персонала
7. Управление работой грузовой станции
8. Оптимизация транспортных потоков
9. Тайм-менеджмент;
10. Управленческая экономика.

Наименование дисциплины для внесения в ОП 7М11351/52-ОПДЭТ:

1. Интеллектуальные транспортные системы
2. Методы принятия управленческих решений
3. Моделирование работы транспортных узлов
4. Транспортная безопасность
5. Прогнозирование и организация транспортных потоков
6. Бережливое производство
7. Смарт-технологии на транспорте
8. Система организации транспортных потоков

Председатель



Абибуллаев С.Ш.

Секретарь



Суйеншиова М.Е.

Академия логистики и транспорта

ПРОТОКОЛ № 4

Заседания КОК УМБ института «Логистика и управление»

г. Алматы

«21» февраля 2023 год

Председатель: Калтаев А.К.

Секретарь: Маулина Н.Х.

Присутствовали: Калтаев А.К. – председатель, директор института «ЛиУ» ассистент-профессор АЛТ; Бадамбаева С.Е. – зам. председателя, зам. директора института «ЛиУ», Елешев Ж.Б. – секретарь, ассистент-преподаватель кафедры «ЛМТ», зав. кафедрой «ОПЭТ», ассистент-профессор Битилеуова З.К., зав. кафедрой «ЛМТ», ассистент-профессор Мусалиева Р.Д., и.д. зав. кафедрой «ОПЭТ», ассистент-профессор Абибуллаев С.Ш., ассистент-профессор кафедры «ЛМТ» Арзаева М.Ж., ассистент-профессор кафедры «ЛМТ» Сутурова А.Ж., ассистент-профессор кафедры «ЛМТ» Маликова Л.М., ассистент-профессор кафедры «ЛМТ» Мурзабекова К.А., ассистент-профессор кафедры «ОПЭТ» Вахитова Л.В., ассистент-профессор кафедры «ОПЭТ» Альтаева Ж.Ж., ассистент-профессор кафедры «ОПЭТ» Мусабаев Б.К., ассистент-профессор кафедры «ОПЭТ» Муратбекова Г.В., ассистент-профессор АЛТ кафедры «ОПЭТ» Молгаждаров А.С.; ассистент-профессор кафедры «ОПЭТ» Избаирова А.С., сениор-лектор кафедры «ЛМТ» Урсарова А.К., сениор-лектор кафедры «ОПЭТ» Нуржаубаев М.М., сениор-лектор кафедры «ОПЭТ» Алданазаров К.Т., лектор кафедры «ЛМТ» Ебесова А.Б., докторант Олжабаева Р.С.

Представители с производства: Начальник отдела АСУ, филиал ТОО «КТЖ-Грузовые перевозки» - «Алматыское отделение ГП» - Абдреев Г.А., Начальник станции Алматы-1, филиал ТОО «КТЖ-Грузовые перевозки» - «Алматыское отделение ГП» - Садыков Б.А., Начальник отдела диспетчерского управления перевозками ТОО «Транском» - Косыбаев К.К., Генеральный директор ТОО «Azurite Railway Solutions» - Шарубеков М.Н., Начальник регионального центра управления движением поездов по Юго-Восточному региону ТОО «КТЖ-Грузовые перевозки» - Тургалиев А., Начальник вокзала Алматы-2 – Акпанов Б.Б., директор ТОО «STLC» - Токтамысова А.Б.

Обучающиеся: обучающийся группы УС-ОП-21-3р Мусин Д.А., обучающийся группы МН-ЭЭИВЖТ-22-1 Муратбеков Б.Н., обучающийся группы МН-ОПЭТ-22-1 Асанов А.Ж., обучающийся группы МН-РПД-21-1 Еркебай Айя, обучающийся группы ТЛ-20-4 Сасамбаев Д.Т.

ПОВЕСТКА ДНЯ:

1. Рассмотрение Каталога элективных дисциплин (КЭД), Рабочей учебной программы (РУП) паспорта образовательных программ бакалавриата, магистратуры и докторантуры.

ВЫСТУПИЛ(а): зав. кафедрой «ОПЭТ» Абибуллаев С.Ш. представил на рассмотрение КЭД, РУП бакалавриата, магистратуры и докторантуры.

На кафедре «ОПЭТ» было проведено заседание с привлечением представителей работодателей и обучающихся по обсуждению структуры и содержанию образовательных программ бакалавриата, магистратуры и докторантуры (БВ11326-Организация перевозок, движения и эксплуатация транспорта; БВ11367-Организация дорожного движения; 7М11351 (7М11352)-Организация перевозок, движения и эксплуатация транспорта).

Представителями работодателей и обучающимися были предложены ряд новых актуальных дисциплин, которые кафедра одобрила и включила в новые КЭД и РУП.

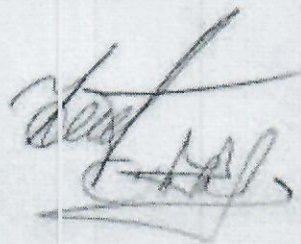
ПОСТАНОВИЛИ:

1. Информацию принять к сведению;
2. Учесть все предложения и рекомендации работодателей, представителей студенческого актива;

3. Представить КЭД, РУП и ОП бакалавриата, магистратуры и докторантуры для рассмотрения и утверждения на Совете института, УС Академии.

Председатель КОК УМБ

Секретарь



Калтаев А.К.

Маулина Н.Х.

