

School of transport engineering and logistics named after M. Tynyshpayev Department of "Logistics"

EDUCATIONAL PROGRAM

8D11301 Transport services

Code and name of educational program

Code and classification of the field of education: **8D11 Services**

Code and classification of training directions: **8D11 Transport services**

Group of educational programs: **D147 Transport services**

Level based on NQF:8 Level based on IQF:8

Study period:3

Amount of credits:180

$Educational\ program\ \underline{8D11301\ Transport\ services}_{\text{code and name of educational program}}$

was approved at the meeting of K.I. Satbayev KazNRTU Academic Council

Protocol № 3 dated « 27 ___ » _10 _2022.

was reviewed and recommended for approval at the meeting of K.I. Satbayev KazNRTU Educational and Methodological Council

Protocol № 2 dated « 21 » 10 2022

was developed by Academic committee based on direction «8D11 Transport services»

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List of abbreviations and designations

EP - educational program

NRK - National Qualification Framework

IRK - Industry Qualification Framework

1. Description of educational program

EP "8D11301 - Transport Services" is aimed at training a specialist who can carry out labour activity in international, state, research, scientific and pedagogical, design and design and technological institutions, as well as in industrial companies, regional transport cluster organisations of the transport sector of the national economy, based on the application of innovative, organisational, managerial and scientific and pedagogical innovations in the field of transport services.

2. Purpose and objectives of educational program

Purpose of EP: Training of highly qualified scientific, pedagogical and managerial personnel with methodological knowledge and professional competencies in making innovative decisions, to analyze and forecast the results of research activities in the field of transport flow and process management

Tasks of EP:

- providing the domestic labor market with highly qualified scientific personnel for the formation of a sustainable national economy with a high level of competitiveness on a global scale;
- the formation of scientists of a new generation capable of systemic and critical thinking in conditions of deep transformation at the worldview level;
- development of an environment that ensures the continuous development of scientific thought for the benefit of society as a whole;
- implementation of research work, organization and implementation of educational activities, taking into account the latest achievements of domestic and world science and practice;
- formation of sustainable partnerships with leading universities of near and far abroad for the purpose of open and mutually beneficial cooperation in the global educational and scientific space.

3. Requirements for evaluating the educational program learning outcomes

4. Passport of educational program

4.1. General information

№	Field name	Comments
1	Code and classification of the	8D11 Services
	field of education	
2	Code and classification of	8D113 Transport services
	training directions	

3	Educational program group	8D147 Transport services
_	Educational program name	8D11301 Transport services
		EP "8D11301 - Transport Services" is aimed at training a
	program	specialist who can carry out labour activity in
		international, state, research, scientific and pedagogical,
		design and design and technological institutions, as well
		as in industrial companies, regional transport cluster
		organisations of the transport sector of the national
		economy, based on the application of innovative,
		organisational, managerial and scientific and pedagogical
		innovations in the field of transport services.
6	Purpose of EP	Training of highly qualified scientific, pedagogical and
		managerial personnel with methodological knowledge and
		professional competencies in making innovative
		decisions, to analyze and forecast the results of research
		activities in the field of transport flow and process
		management
7	Type of EP	New EP
	The level based on NQF	8
	The level based on IQF	8
	Distinctive features of EP	no .
	<u> </u>	- to be able to carry out scientific activities in the
	1 0	paradigm of modern trends in the global and national
		educational space in accordance with the modern national
		education strategy;
		- to be able to organize the process of education and
		upbringing as a dynamic system in accordance with the
		modern strategy of education; - to be able to critically analyze and evaluate modern
		scientific achievements, generate new ideas in solving
		research and practical problems, including in
		interdisciplinary areas;
		- to be able to design and carry out comprehensive
		research, including interdisciplinary ones, based on a
		holistic systemic scientific outlook using knowledge in
		the field of transport services and traffic flows;
		- to be able to implement scientific projects in the work of
		kazakh and international research teams to solve scientific
		and scientific and educational problems;
		- to be able to solve standard tasks of professional activity
		using information and communication technologies;
		- to be able to think strategically and creatively, as well as
		creatively approach solving non-standard problems and
		situations;
12		1. Solve theoretical and applied research problems of
	program	transport science using methods of system analysis and
		forecasting the activities of transport systems, networks,
		processes and flows
		2. Plan and carry out theoretical and experimental research
		on the management of transport enterprises, networks and
		flows using modern information technologies

	2 D1.1. (- 41
	3. Be able to develop conceptual and simulation models of
	the activities of transport and logistics systems and
	networks, transport flows and logistics centers, conduct
	experimental research on the developed models, analyze
	the results of experiments and determine the optimal
	performance of the model
	4. Possess the methodology and methods of designing
	cargo supply networks, warehouse systems and transport
	and technological routes
	5. Possess knowledge of methodology and basic
	theoretical provisions, practical methods of conducting
	scientific research and skills in searching, analysing and
	processing scientific data and information, intellectual
	property protection rights at the international level
	6. Carry out work on the design, improvement and
	reorganization of the activities of transport systems and
	networks, the development of projects and programs for
	the development of transport enterprises based on
	reengineering and modern research approaches
	7. Perform patent search, study and analyze scientific and
	technical information, domestic and foreign experience on
	the topic under study
	8. Possess the skills of working with modern innovative
	and digital technologies in the field of transport logistics
	and management of transport complexes for the purpose
	of application in scientific research
	9. Demonstrate the skills of writing academic and
	scientific texts at various levels when performing research
	projects, develop teaching and methodological materials
	for academic disciplines, taking into account the
12 Education form	integration of education, science and innovation
13 Education form	
14 Period of training	3
15 Amount of credits	180
16 Languages of instruction	kazakh russian
17 Academic degree awarded	PhD
18 Developer(s) and authors	Mukhanova Gulmira Samudinovna

4.2. Relationship between the achievability of the formed learning outcomes based on educational program and academic disciplines

№	Discipline	Short description of discipline	Amount		Gene	erated l			utcon	nes (o	codes)
	name		of credits	LO1		LO3				LO		LO 9
					2		4	5	6	7	8	
		Cycle of bas										
		University	s compone	:111t								
1	Academic writing	The course aims to develop academic writing skills of doctoral students in engineering and natural sciences. The course focuses on fundamentals and general principles of academic writing for; -writing effective sentences and paragraphs; -the use of tenses in scientific works, as well as styles and punctuation; - writing an abstract, introduction,										V
		results, discussion, conclusion, literature and resources used; - citing in the text; - preventing plagiarism, and making a presentation at the conference.	5					T.4				
2	Research methods	The concept of science and scientific research, methods and methodology of scientific research, methods of collecting and processing scientific data, principles of organizing scientific research, methodological features of modern science, ways of developing science and scientific research, the role of technical sciences, informatics and engineering research in modern science, the structure of technical sciences, the use of general scientific, philosophical and special methods scientific research in theory and practice. Cycle of bas	ic discipli					V		V		V
			nt of choice		ı	Π	ı	ı				I
3	modelling of	Objectives of the course: the acquisition of knowledge by PhD students about the theory	Þ			V						

	logistics systems	of simulation modelling and teaching innovative skills: generating options, planning experiments, comparing options, evaluating options, choosing options. Discipline content: building a conceptual model of the transport system. Simulation studies in the field of transport and industrial logistics: - problem analysis; - data collection; - development of conceptual and simulation models; - planning, execution and evaluation of the experiment; - interpretation and presentation of results.						
4	Intellectual property and the global market	Purpose: the goal is to train specialists in the field of intellectual property law who can analyze and predict trends in its development in the global market, develop strategies for the protection and commercialization of intellectual property. Contents: global aspects of intellectual property and its role in international trade and economics, analysis of international agreements and conventions, IP management strategies, cases of protection and violation of intellectual property rights in various jurisdictions.	5					
5	Digital technologies of transport and logistics services	The goal of the discipline is to master the skills of applying modern information systems and technologies to support transport and logistics systems, logistics processes and supply chain management. Content: information systems and innovative technologies in the management of transport systems and flows. Satellite communication and navigation systems, tracking and tracing of cargo and transport flows.	5	v			V	

		RFID systems. BigData,								
		Blockchain and Internet Of								
		Things technologies								
		Cycle of profi	ile discin	lines					I	
		Componen								
		The main trends in the	5	V				V	V	
		development of the ideology of								
		supply chain management. Key								
		factors and drivers that								
		determine the development of								
		the DRM concept.								
	Global trends	Methodological aspects of								
		digital transformation of supply								
6	in supply chain	chains. Digital technologies in								
6	managamant	their supply chains. The best								
	and research	practice of leading companies								
	and researen	in the field of logistics and								
		SRM. Issues of segmentation of								
		supply chains, customer-								
		oriented business, increasing the sustainability, dynamism								
		and transparency of supply								
		chains.								
			5		v	v	v			
		The aim of the course is the			•	•	•			
		formation of knowledge and skills for research, design and								
		modeling of transport processes								
		and systems. Course content:								
		Methodological foundations for								
		the design of transport								
		processes and systems.								
		Information support for design.								
	Methodology	Modeling of transport								
	for the	processes. Methodology and								
	design of	methods for designing cargo								
7	transport and	supply networks, warehouse								
	logistics	systems, transport facilities,								
	eveteme and	transport and technological routes; planning, execution and								
	processes	controlling of resource flows								
		(goods, materials, information,								
		etc.) in complex transport and								
		logistics systems and supply								
		chains; problems of value added								
		management in the production								
		of transport services for the end								
		user; problems of logistic								
		coordination in transport								
		systems. Designing urban /								

	1	T	1			1		-	-	
		regional road freight transport								
		routes.								
8	Reengineerin g in transport logistics	The purpose of the course is to acquire skills in modernizing the business processes of transport systems. Course content: Theoretical prerequisites for optimizing the transport process in transport systems. Reengineering methodology. Optimization of capacities and indicators of permanent devices of transport systems and their capacity. Improvement of the operational management system for the interaction of various types of transport. Spheres of optimal interaction of various types of transport and the development of their competitiveness.	5				V			
9	System analysis of transport systems	Purpose: to form a complex of theoretical knowledge of the basics of system analysis and forecasting of traffic flows and systems. Contents: Systems analysis as a methodology of general systems theory. Basic principles, tasks and functions of system analysis and their application in the study of transport systems. Models and methods of system analysis and forecasting of traffic flows; time series and forecasting methods in the research of transport systems.	5	V						

5. Curriculum of educational program

ern of study, hell-time Name of disciplines	Duration Cycle		ducaties	ogram 8D11 ial program			ces"	1/3	1311	-		
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proportional logistics systems.	CCH		1.80	201	100	,	300					
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