



**School of transport engineering and logistics named after M. Tynyshpayev
«Logistics» direction**

EDUCATIONAL PROGRAM

8D11301 Transport services

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

Code and classification of training directions: **8D113 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**

Almaty 2025

Educational Program 8D11301 «Transport services» approved at the meeting of the Academic Council of Satbayev University.

Protocol No. 10 dated March 6, 2025.

Reviewed and recommended for approval at the meeting of the Educational and Methodological Council of Satbayev University.

Protocol No. 3 dated December 20, 2024.

The Educational Program 8D11301 «Transport services» was developed by the Academic Committee in the field of study 8D113 “Transport Services.”

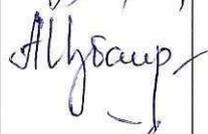
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List of abbreviations and designations

EP - Educational program
NRK - National Qualification Framework
IRK - Industry Qualification Framework
SDG - Sustainable Development Goals

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.

The educational program is directly linked to several Sustainable Development Goals (SDGs), as transport plays a key role in the economy, social integration, and ecology. The main SDGs addressed by the EP **8D11301 – Transport Services** are:

SDG 4 – Quality Education. Training qualified personnel in the field of transport services expands access to modern knowledge, skills, and technologies, while also forming interdisciplinary competencies (logistics, IT, service, etc.).

SDG 8 – Decent Work and Economic Growth. The development of transport services stimulates the economy, enhances population mobility, and creates new jobs. The program prepares specialists for employment in transportation, logistics, and service sectors.

SDG 9 – Industry, Innovation, and Infrastructure. Transport services are closely related to the development of modern infrastructure and the introduction of innovations (digitalization, intelligent transport systems, IT in transport and logistics). The program emphasizes sustainable and intelligent transport solutions that ensure safety in transport processes.

SDG 11 – Sustainable Cities and Communities. Transport is a key element of sustainable urban mobility. Training specialists in transport services contributes to the development of environmentally friendly, safe, and accessible transport, reducing traffic congestion and harmful emissions.

SDG 12 – Responsible Consumption and Production. The curriculum includes topics on optimizing transport and logistics processes, energy efficiency, and the environmental sustainability of transport services.

SDG 13 – Climate Action. The program addresses the reduction of the transport carbon footprint and the development of vehicles and transport technologies powered by alternative fuels.

Field of professional activity: Sections of science and technology studying interrelations and principles in the theory of movement, calculations, design, testing, and operation of ground transport aimed at solving problems of creating new and improving existing models of technology; higher and secondary professional education.

Objects of professional activity: Government and educational institutions, national and sectoral academies of sciences, research organizations, research institutes, research universities, scientific laboratories of higher educational institutions, design bureaus, shared laboratories, research subdivisions of organizations for which scientific and/or

scientific-technical activity is not the main activity; transport, transport equipment, and enterprises of the transport and communication complex.

Types of professional activity:

- Research;
- Academic and pedagogical;
- Production and technological;
- Organizational and managerial;
- Design and technological.

Functions of professional activity:

1. Planning of research and experimental research work;
2. Implementation of research and experimental research work;
3. Educational: transmitting academic knowledge, teaching students to acquire knowledge independently;
4. Educational and upbringing: introducing students to the system of social values;
5. Socio-communicative: interacting with the professional community and all stakeholders in education.

List of positions for specialists:

- Researcher;
- Professor, Associate Professor, Assistant Professor, Senior Lecturer;
- Education Manager;
- Investigator/Researcher;
- Designer, Head of various departments of plants, production enterprises engaged in the manufacturing, repair, and operation of transport and transport equipment.

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.

Research Practice

Research practice is a type of scientific research activity aimed at deepening and systematizing the doctoral student's theoretical and methodological training, mastering the technology of scientific research, and acquiring and improving practical skills in performing experimental work in accordance with the requirements for the level of PhD training.

Research practice is conducted in order to familiarize doctoral students with the latest theoretical, methodological, and technological achievements of domestic and foreign science, with modern methods of research, processing, and interpretation of experimental data. The content of research practice is determined by the topic of the doctoral dissertation.

Research practice may take place at the university or in scientific organizations that can serve as experimental platforms for conducting research related to the dissertation topic. During the practice, doctoral students are given the opportunity to carry out experimental research according to a pre-developed program that takes into account the tasks of the doctoral dissertation.

Teaching Practice

Teaching practice is a component of practical training for future lecturers and is carried out in conditions as close as possible to the real professional activities of an academic teacher. It is aimed at developing functional competencies and the ability to perform tasks in professional and educational contexts. Teaching practice enhances the professional and personal development of future faculty members.

During the practice, doctoral students design and implement an educational plan for a group of students, develop and deliver a system of classes reflecting a completed stage of the teaching process, based on the content of specialized disciplines, and demonstrate proficiency in modern teaching technologies and methodologies.

The objectives of teaching practice are:

- consolidation and deepening of knowledge in general scientific, psychological-pedagogical, methodological, fundamental, and specialized disciplines;
- formation of pedagogical skills, competencies, and abilities based on theoretical knowledge.

The program of teaching practice is developed by the department and approved by the Vice-Rector for Academic Affairs.

The teaching practice should be aimed at developing professionally significant skills and core competencies, including:

- planning, forecasting, and analyzing the main components of the teaching and learning process;
- applying various forms and methods of organizing and implementing educational, labor, social, environmental, health, recreational, and other activities of students;
- applying an individual approach to students during teaching and educational activities, taking into account their developmental characteristics;
- carrying out pedagogical diagnostics of the learning process.

Teaching practice is carried out in institutions that provide secondary vocational education and higher education. Its duration is determined by the curriculum of the doctoral program in the field of training 8D071 – Engineering and Engineering Studies.

Doctoral Research Work (DRW)

The planning of DRW in weeks is determined on the basis of the normative working time of the doctoral student per week. The number of credits allocated for DRW in a given academic period is defined by the working curriculum of the doctoral program in the field of training 8D071 – Engineering and Engineering Studies.

DRW must:

1. correspond to the main research topics of the doctoral program;
2. be relevant, contain scientific novelty, and have practical significance;
3. be based on modern theoretical, methodological, and technological achievements;
4. apply modern methods of data processing and interpretation, including computer technologies;
5. use modern research methods;
6. include scientific (methodological, practical) sections supporting the defended positions.

The doctoral dissertation is prepared during the DRW period.

As part of DRW, the individual work plan of the doctoral student provides for mandatory foreign scientific internships in research organizations and/or institutions of the relevant industry in order to gain knowledge of innovative technologies and new

types of production. **Objective of DRW:**
To prepare a doctoral student who possesses the methodology of scientific knowledge, can apply scientific methods to study modern production problems, and whose final research output is the writing and successful defense of a doctoral dissertation.

Tasks of DRW:

- to prepare highly qualified specialists with broad fundamental knowledge;
- to develop doctoral students' ability to critically analyze and master theoretical concepts and implement them in practice, with further testing at the international level;
- to form the ability for professional growth, self-development, and independent creative mastery of new knowledge throughout their active professional life.

Upon completion of the doctoral program, graduates should be prepared to perform the following tasks in professional research work:

- demonstrate a systemic understanding of their field of study, mastery of research skills and methods used in the field;
- plan, develop, implement, and adjust complex research processes;
- contribute through original research to the expansion of the scientific field, worthy of national or international publication;
- critically analyze, evaluate, and synthesize new and complex ideas;
- communicate knowledge and achievements to colleagues, the scientific community, and society;
- contribute to the development of a knowledge-based society.

International Scientific Internship

International internships are conducted with the goals of:

- fulfilling dissertation research tasks;
- gaining knowledge of innovative technologies and new types of production;
- familiarization with the latest theoretical, methodological, and technological achievements of domestic and foreign science;
- mastering modern methods of research, processing, and interpretation of experimental data;
- consolidating theoretical knowledge gained during study, acquiring practical skills, competencies, and professional experience, and learning best international practices.

Requirements for DRW:

- relevance and novelty with practical significance;
- theoretical and methodological grounding;
- use of modern methods of data processing with computer technologies;
- inclusion of scientific and methodological sections related to dissertation objectives.

The Academy sets specific requirements for doctoral students' research preparation, including:

- knowledge in scientific and managerial fields under conditions of continuous knowledge renewal;

- ability to conduct independent research on relevant problems and disciplines;
- proficiency in data processing and transmission using modern technical tools;
- ability to forecast scientific and technological development trends;
- mastery of specialized skills and methods for effective decision-making in engineering and technology.

Forms of DRW include:

- assignments from the scientific advisor;
- participation in departmental research work;
- participation in academic and methodological seminars;
- application of modern data processing methods;
- involvement in project documentation development;
- participation in joint research projects and programs;
- preparation and defense of the doctoral dissertation.

DRW also encompasses:

- research work;
- scientific trips (including conferences, seminars, and internships with the foreign advisor);
- publications;
- dissertation writing.

International scientific internships are carried out according to the individual doctoral work plan and academic calendar, usually in the second year of doctoral studies. They are conducted on the basis of agreements with foreign universities, research institutions, or leading scholars, and may also include exchange programs, dual-degree programs, or joint educational projects.

Important: Failure to complete an international scientific internship disqualifies the doctoral student from the final attestation.

3. Requirements for evaluating the educational program learning outcomes

Individuals who have completed the doctoral educational program and successfully defended their doctoral dissertation, upon a positive decision of the dissertation councils of universities with special status or the Committee for Control in the Sphere of Education and Science of the Ministry of Education and Science of the Republic of Kazakhstan, based on the results of the conducted expertise, are awarded the degree of Doctor of Philosophy (PhD) or Doctor in a specific profile. They are issued a state-standard diploma with an attachment (transcript).

Holders of the PhD degree, in order to deepen their scientific knowledge and to address scientific and applied problems in a specialized field, may pursue a postdoctoral program or conduct scientific research under the supervision of a leading scholar appointed by the university.

Doctoral students have direct access to the KED, curricula, syllabi posted on the university website, as well as the opportunity to review presentations of academic disciplines published on the university's website and departments (<http://portal.kaznitu.kz/?q=ru/node/1442>).

The cycle of basic disciplines serves as the foundation of professional education. The purpose of the cycle of specialized disciplines is to provide in-depth theoretical knowledge and the practical application of specialized engineering expertise.

The final attestation of a doctoral student is carried out in the form of writing and defending a doctoral dissertation.

The objective of the final attestation is to evaluate the doctoral student's scientific-theoretical and research-analytical level, the formation of professional and managerial competencies, readiness for independent professional activity, and compliance of their training with the requirements of the doctoral educational program.

Only those students who have completed the educational process in accordance with the requirements of the educational program, the working curriculum, and the working programs of academic disciplines, as well as those who have passed the preliminary defense (extended session) based on the results of their dissertation research, are admitted to the final attestation.

4. Passport of educational program

4.1. General information

№	Field name	Comments
1	Code and classification of the field of education	8D11 Services
2	Code and classification of training directions	8D113 Transport services
3	Educational program group	8D147 Transport services
4	Educational program name	8D11301 Transport services
5	Short 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.
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
8	The level based on NQF	8
9	The level based on IQF	8
10	Distinctive features of EP	no
11	List of competencies of educational program	<ul style="list-style-type: none"> - to be able to carry out scientific activities in the 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	Learning outcomes of educational program	<ol style="list-style-type: none"> 1. Solve theoretical and applied research problems of 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; 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 integration of education, science and innovation.
13	Education form	Daytime
14	Period of training	3
15	Amount of credits	180
16	Languages of instruction	Russian, kazakh, english
17	Academic degree awarded	Doctorate
18	Developer(s) and authors	Mukhanova Gulmira Samudinovna, Imasheva Gulnar Mahmutovna

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

№	Discipline name	Short description of discipline	Amount of credits	Generated learning outcomes (codes)								
				LO1	LO 2	LO 3	LO 4	LO 5	LO 6	LO 7	LO 8	LO 9
Cycle of basic disciplines University component												
1	Academic writing	Purpose: to develop academic writing skills and writing strategies among doctoral students in the fields of engineering and natural sciences. Contents: fundamentals and general principles of academic writing, including: writing effective sentences and paragraphs, writing an abstract, introduction, conclusion, discussion, conclusion, references used; in-text citation; preventing plagiarism, as well as preparing a presentation at a conference.	5									v
2	Methods of scientific research	Purpose: It consists in mastering knowledge about the laws, principles, concepts, terminology, content, specific features of the organization and management of scientific research using modern methods	5	v				v		v		v

		of scientometry. Contents: structure of technical sciences, application of general scientific, philosophical and special methods of scientific research, principles of organization of scientific research, methodological features of modern science, ways of development of science and scientific research, the role of technical sciences, computer science and engineering research in theory and practice											
Cycle of basic disciplines Component of choice													
3	Simulation modelling of transport and logistics systems	Objectives of the course: the acquisition of knowledge by PhD students about the theory 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	5			v							

		and evaluation of the experiment; - interpretation and presentation of results.										
4	Intellectual property and the global market	<p>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.</p> <p>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.</p>	5					v				
5	Digital technologies of transport and logistics services	<p>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</p>	5		v						v	

		communication and navigation systems, tracking and tracing of cargo and transport flows. RFID systems. BigData, Blockchain and Internet Of Things technologies										
Cycle of profile disciplines Component of choice												
6	Global trends in supply chain management and research	The main trends in the development of the ideology of supply chain management. Key factors and drivers that determine the development of the DRM concept. Methodological aspects of digital transformation of supply chains. Digital technologies in their supply chains. The best practice of leading companies 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	
7	Methodology for the design of transport and logistics systems and processes	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.	5		v	v	v					

		Information support for design. Modeling of transport processes. Methodology and methods for designing cargo supply networks, warehouse systems, transport facilities, transport and technological routes; planning, execution and 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 / regional road freight transport routes.										
8	Reengineering 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	5						v			

		interaction of various types of transport. Spheres of optimal interaction of various types of transport and the development of their competitiveness.										
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

NON-PROFIT JOINT STOCK COMPANY
"KAZAKH NATIONAL RESEARCH TECHNICAL UNIVERSITY NAMED AFTER K.I. SATBAYEV"



«APPROVED»
Decision of the Academic Council
NPJSC «KazNRTU»
named after K.Satbayev
dated 06.03.2025 Minutes № 10

WORKING CURRICULUM

Academic year
Group of educational programs
Educational program
The awarded academic degree
Form and duration of study

2025-2026 (Autumn, Spring)
D147 - "Transport services"
SD11301 - "Transport services"
Doctor of Philosophy PhD
full time (scientific and pedagogical track) - 3 years

Discipline code	Name of disciplines	Block	Cycle	Total ECTS credits	Total hours	lab/tp Contact hours	In hours SIS (including TESIS)	Form of control	Allocation of face-to-face training based on courses and semesters						Prerequisites
									1 course		2 course		3 course		
									1 sem	2 sem	3 sem	4 sem	5 sem	6 sem	
CYCLE OF GENERAL EDUCATION DISCIPLINES (GED)															
CYCLE OF BASIC DISCIPLINES (BD)															
M-1. Module of basic training (university component)															
MET322	Methods of scientific research		BD, UIC	5	150	30/0/15	105	E	5						
LNG305	Academic writing		BD, UIC	5	150	0/0/45	105	E	5						
TRA301	Digital technologies of transport and logistics services	1	BD, CCH	5	150	30/15/0	105	E	5						
TRA303	Simulation modeling of transport and logistics systems	1	BD, CCH	5	150	30/15/0	105	E	5						
MNG349	Intellectual property and the global market	1	BD, CCH	5	150	30/0/15	105	E	5						
M-3. Practice-oriented module															
AAP350	Pedagogical practice		BD, UIC	10				R		10					
CYCLE OF PROFILE DISCIPLINES (PD)															
M-2. Module of professional activity (component of choice)															
TRA302	Reengineering in transport logistics	1	PD, CCH	5	150	30/0/15	105	E	5						
TRA304	Methodology for the design of transport and logistics systems and processes	1	PD, CCH	5	150	30/0/15	105	E	5						
TRA300	System analysis of transport systems	2	PD, CCH	5	150	30/0/15	105	E	5						
LOG300	Global trends in supply chain management and research	2	PD, CCH	5	150	30/0/15	105	E	5						
M-3. Practice-oriented module															
AAP355	Research practice		PD, UIC	10				R		10					
M-4. Experimental research module															
AAP336	Research work of the doctoral student, including internships and doctoral dissertation		RWDS	5				R	5						
AAP347	Research work of the doctoral student, including internships and doctoral dissertation		RWDS	20				R		20					
AAP347	Research work of the doctoral student, including internships and doctoral dissertation		RWDS	20				R			20				
AAP356	Research work of the doctoral student, including internships and doctoral dissertation		RWDS	30				R			30				
AAP356	Research work of the doctoral student, including internships and doctoral dissertation		RWDS	30				R				30			
AAP348	Research work of the doctoral student, including internships and doctoral dissertation		RWDS	18				R						18	
M-5. Module of final attestation															
ECA325	Final examination (writing and defending a doctoral dissertation)		FA	12										12	
Total based on UNIKERSITY:															
									30	30	30	30	30	30	
									60	60	60				

NCJS «KAZAKH NATIONAL RESEARCH TECHNICAL UNIVERSITY
named after K.I.SATBAYEV»

Number of credits for the entire period of study

Cycle code	Cycles of disciplines	Credits			Total
		Required component (RC)	University component (UC)	Component of choice (CCH)	
GED	Cycle of general education disciplines	0	0	0	0
BD	Cycle of basic disciplines	0	20	5	25
PD	Cycle of profile disciplines	0	10	10	20
Total for theoretical training:		0	30	15	45
RDWS	Research Work of Doctoral Student				123
ERWDS	Experimental Research Work of Doctoral Student				0
FA	Final attestation				12
TOTAL:					180

Decision of the Educational and Methodological Council of KazNRTU named after K.Satpayev. Minutes № 3 dated 20.12.2024

Decision of the Academic Council of the Institute. Minutes № 3 dated 29.11.2024

Signed:

Governing Board member - Vice-Rector for Academic Affairs

Uskenbayeva R. K.



Approved:

Vice Provost on academic development

Kalpyeva Z. E.

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Management and Academic-Methodological Work

Zhumagaliyeva A. S.



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Abdullayev S. C.

Department Chair - Logistics

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____Acknowledged____