



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

EDUCATIONAL PROGRAM

8D11302 Management of transportation systems

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**

Almaty 2025

Educational Program 8D11302 «Management of transportation» systems 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 8D11302 «Management of transportation systems» was developed by the Academic Committee in the field of study 8D113 “Transport Services.”

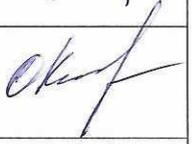
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List of abbreviations and designations

EP - educational program

NRK - National Qualification Framework

IRK - Industry Qualification Framework

SDG - Sustainable Development Goals

1. Description of educational program

EP 8D11302 «**Management of transportation systems**» 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 8D11302 «Management of transportation systems» 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: The educational program of profile doctoral studies is aimed at training highly professional managerial staff with new methodological knowledge, professional competencies and leadership qualities for making operational and strategic decisions in the field of management of transport systems, flows and provision of transport services.

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	8D11302 Management of transportation systems
5	Short description of educational program	EP "8D11302 Management of transportation systems" 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	The educational program of profile doctoral studies is aimed at training highly professional managerial staff with new methodological knowledge, professional competencies and leadership qualities for making operational and strategic decisions in the field of management of transport systems, flows and provision of transport services.
7	Type of EP	Innovative 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. Plan and conduct research in the field of supply chain, transportation systems, processes and services to identify new knowledge based on the application of scientific research methods and advanced scientific achievements; 2. Develop large-scale transport and logistics projects at regional and international levels based on the application of effective business processes and project management tools, innovative technology, corporate governance principles, ESG, and sustainable development goals; 3. Determine the tariff policy of the company based on the methodology of tariff index construction for transport services and ways to optimize the cost of their provision in order to increase competitiveness and sustainability of the company's functioning; 4. Implement and apply modern information systems and digital technologies to solve professional problems, increase reliability, sustainability and competitiveness of the company; 5. Forecast and analyze the results of innovative activities of transport systems based on the modeling of optimal freight flow patterns in the context of globalization and supply chain reliability; 6. Formalize the results of research work in the form of academic and scientific texts of various levels; 7. Demonstrate skills of successful management of corporate structures, communication and teamwork, strategic decision-making and effective human resource management based on ethical business norms.
13	Education form	full-time
14	Period of training	3
15	Amount of credits	180
16	Languages of instruction	russian, kazakh, english
17	Academic degree awarded	PhD
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
Cycle of basic disciplines University component										
1	Academic writing	Objective: to develop academic writing skills and writing strategies for doctoral students in engineering and natural sciences. Content: fundamentals and general principles of academic writing, including: writing effective sentences and paragraphs, writing an abstract, introduction, conclusion, discussion, and references; in-text citation; preventing plagiarism; and preparing a conference presentation.	5	v						v

2	Methods of scientific research	<p>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 of scientometry.</p> <p>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</p>	5	v						
Cycle of basic disciplines										
Component of choice										
3	Cargo flow modeling and forecasting	<p>Purpose: to study scientific approaches in modeling and forecasting of freight and transport flows. Content: Modeling of freight flows taking into account the systematization of socio-economic data. Forecasting of cargo flows and technical development of transport and logistics infrastructure. Formation and visualization of correspondence matrix on all types of transport. Creation of scenarios</p>	5	v				v		

		of cargo flows on all types of transportation. Forecasting the intensity of cargo transportation taking into account their redistribution depending on various factors. Selection of optimal freight transportation schemes. Analysis of transport accessibility.								
4	Sustainability Science	Objective: to develop a deep understanding among doctoral students of the interactions between natural and social systems, as well as to develop skills for identifying and developing strategies for sustainable development that promote long-term human well-being and environmental preservation. Content: complex interconnections between ecosystems and societies, as well as an in-depth analysis of sustainability issues at local, national, and international levels.	5	v		v	v			
5	System of tariff formation of transportation services	Purpose: to study the science-based methodology of tariff formation in transportation. Content: Principles of construction and methodological approaches to determining tariffs for transportation services. Features of transportation tariffs on different types of transport. Differentiation	5			v				

		of tariffs. State regulation of tariffs for freight and passenger transportation. Modern trends in the development of the tariff system in transportation.								
Cycle of profile disciplines Component of choice										
6	Current trends in global supply chain management	Purpose: doctoral students acquire skills in organizing global supply chains based on the study of global practices and transportation policies. Content: Main trends in the development of supply chain management (SCM). Key factors and driving forces that determine globalization in SCM. The purpose, objectives and building blocks of international transportation policy. Industry 4.0 in the supply chain. Best practices of advanced companies in building a sustainable supply chain. Supply chain reliability. Customer centricity and business sustainability. Increasing supply chain agility and transparency.	5	v	v		v	v		
7	Corporate governance of transportation and logistics companies	Purpose: To explore the key principles, concepts and practices necessary for effective management of transportation and logistics companies. Content: Understanding the structure and functions of corporate organizations in the field of	5		v					

		transport services. Analysis of strategic management of transportation and logistics companies: strategy formulation, strategic decision making and evaluation of strategic success. Financial and resource management in transportation. Ethical and social aspects of management. Human capital in transportation and logistics companies. Corporate strategy and competitiveness of transportation and logistics companies.							
8	Management of transportation and logistics business projects	Purpose: formation of system knowledge and skills in the field of transportation and logistics business project management. Content: Conceptual methods and approaches in the management of transportation and logistics business projects. Methods and tools of project management. Strategic management of transportation and logistics business projects. Management of transnational transportation companies. Current trends in international transportation business. International transportation infrastructure projects. Investment analysis and financing of transportation and logistics industry projects. World	5		v			v	

		economy and modern transformation of international transportation systems.							
9	Innovative technologies of transportation processes	Purpose: to master the skills of application of modern digital technologies in transportation systems and management of transportation processes. Content: modern information systems and digital technologies in the management of transportation processes and flows. Innovative technologies in transportation infrastructure. Satellite communication systems, search and monitoring of transportation flows and processes. The role and place of artificial intelligence in the transportation system. RFID, BigData, Blockchain, Internet Of Things technologies in the transportation system.	5		v		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	2025-2026 (Autumn, Spring)
Group of educational programs	D147 - "Transport services"
Educational program	8D11302 - "Management of transportation systems"
The awarded academic degree	Doctor by profile
Form and duration of study	full time (professional track) - 3 years

Discipline code	Name of disciplines	Block	Cycle	Total ECTS credits	Total hours	lab/lab/pr Contact hours	In hours SIS (including TSIS)	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, UC	5	150	30/0/15	105	E	5							
LNG305	Academic writing		BD, UC	5	150	0/0/45	105	E	5							
LOG324	Cargo flow modeling and forecasting	1	BD, CCH	5	150	30/0/15	105	E	5							
LOG321	System of tariff formation of transportation services	1	BD, CCH	5	150	30/0/15	105	E	5							
MNG350	Sustainability Science	1	BD, CCH	5	150	30/0/15	105	E	5							
CYCLE OF PROFILE DISCIPLINES (PD)																
M-2. Module of professional activity (component of choice)																
LOG323	Current trends in global supply chain management	1	PD, CCH	5	150	30/0/15	105	E	5							
LOG326	Corporate governance of transportation and logistics companies	1	PD, CCH	5	150	30/0/15	105	E	5							
LOG325	Management of transportation and logistics business projects	2	PD, CCH	5	150	30/0/15	105	E	5							
LOG322	Innovative technologies of transportation processes	2	PD, CCH	5	150	30/0/15	105	E	5							
M-3. Practice-oriented module																
AAP371	Industrial internship		PD, UC	20				R		20						
M-4. Experimental research module																
AAP372	Experimental research work of doctoral student, including internships and doctoral dissertations		ERWDS	5				R	5							
AAP376	Experimental research work of doctoral student, including internships and doctoral dissertations		ERWDS	10				R		10						
AAP374	Experimental research work of doctoral student, including internships and doctoral dissertations		ERWDS	30				R			30					
AAP374	Experimental research work of doctoral student, including internships and doctoral dissertations		ERWDS	30				R				30				
AAP374	Experimental research work of doctoral student, including internships and doctoral dissertations		ERWDS	30				R					30			
AAP375	Experimental research work of doctoral student, including internships and doctoral dissertations		ERWDS	18				R						18		
M-5. Module of final attestation																
ECA325	Final examination (writing and defending a doctoral dissertation)		FA	12											12	
Total based on UNIVERSITY:											30	30	30	30	30	30
											60	60	60			

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Number of credits for the entire period of study					
Cycle code	Cycles of disciplines	Credits			
		Required component (RC)	University component (UC)	Component of choice (CCH)	Total
GED	Cycle of general education disciplines	0	0	0	0

BD	Cycle of basic disciplines	0	10	5	15
PD	Cycle of profile disciplines	0	20	10	30
Total for theoretical training:		0	30	15	45
RWDS	Research Work of Doctoral Student				0
ERWDS	Experimental Research Work of Doctoral Student				123
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	Kalpeyeva Z. E.
Head of Department - Department of Educational Program Management and Academic-Methodological Work	Zhumagaliyeva A. S.
Supervisor - School of Transport Engineering and Logistics	Abdullayev S. C.
Department Chair - Logistics	Bektilevov A. I.O.
Representative of the Academic Committee from Employers	Sharubekov M.
____ Acknowledged ____	

