

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

EDUCATIONAL PROGRAM 6B11301 - «Transport services»

Code and classification of the field of education: **6B11 Services**

Code and classification of training directions: **6B113 Transport services**

Group of educational programs: 6B11301 Transport services

Level based on NQF: **6** Level based on IQF: **6**

Study period: 4

Amount of credits: 240

Educational program <u>«6B11301- Transport services»</u>

was approved at the meeting of K.I. Satbayev KazNRTU Academic Council Minutes №5 __ dated «24» November 2022.

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

Minutes №3 dated «17» November 2022.

Educational program <u>«6B11301- Transport services»</u> was developed by Academic committee based on direction «6B11301- Transport services»

Full name	Academic degree/academic title	Position	Workplace	Signature
Chairperson of	Academic Committee			
Mukhanova Gulmira Samudinovna	Candidate of Technical Sciences, Associate Professor	. Head of the Department	«Kazakh National Research Technical University Named After K.I.Satbayev», Mobile phone: +77019937718	Fm-
Teaching staff				
Bekzhanova Saule Ertaevna	Doctor of technical Sciences, Professor	Professor	«Kazakh National Research Technical University Named After K.I.Satbayev», Mobile phone: +77017994770	Com
Saltanat Bolatovna	Candidate of Economic Sciences	Assistant Professor	«Kazakh National Research Technical University Named After K.I.Satbayev», Mobile phone: +77057696077	Energy
Tymbaeva Zhazira Muratbekovna	Candidate of Economic Sciences	Associate Professor	«K.И.Сэтбаев «Kazakh National Research Technical University Named After K.I.Satbayev», Mobile phone: +77017867603	Tout
Tyshkanbayeva Mansia Bukarina	Candidate of Physical and Mathematical Sciences, Associate	Associate Professor	«Kazakh National Research Technical University Named After K.I.Satbayev»,	Fried

	Professor		Mobile phone: +77472870472	
Employers			18	
Gafiatullin Farkhad Taufikovich		Chief business analyst	Daucher Company, Mobile phone: +77772549305	In
Medetbekov Serik Muratbekovich		Director	LLC«Turkestan - INVEST» Mobile phone:	to
Tulebayev Madiyar		Associate Director	LLC «ZhebeLogistics», Mobile phone: +77073518752	there
Students			11.51.1.1	-
Kozhataev Sauran		2 nd Year Student	«Kazakh National Research Technical University Named After K.I.Satbayev», Mobile phone: +77788929235	aut

Оглавление

	List of abbreviations and designations	4
1.	Description of educational program	5
2.	Purpose and objectives of educational program	6
3.	Requirements for the evaluation of educational program learning outcomes	7
4.	Passport of educational program	7
1.1.	General information	8
1.2.	Relationship between the achievability of the formed learning outcomes according to educational program and academic disciplines	13
5.	Curriculum of educational program	44

List of abbreviations and notations

EP - educational program

BC - basic competences

PC - professional competences

LO - learning outcomes

MOOC - Massive Open Online Courses

NQF - National Qualifications Framework

SQF - Sectoral Qualifications Framework

1. Description of the educational program

- EP 6B11301 "Transport Services" regulates educational objectives, expected learning outcomes of students, conditions and technologies of educational process implementation, evaluation and analysis of the quality of students' training.
- The EP includes the curriculum, description of disciplines, learning outcomes and other materials to ensure quality education of students.
- Graduates of this EP in the direction of training 6B11301 "Transportation Services" are engaged in:
- 1) analyzing the state of existing transport systems and networks, transport and logistics infrastructure;
- 2) development and implementation of optimal transportationtechnological routes of cargo delivery based on the principles of logistics;
 - 3) ensuring safety of transportation process in different conditions.
- Professional activity of the graduate of EP 6B11301 "Transport Services" is aimed at the implementation of training of specialists in the field of logistics and organization of transportation.
- The graduate of EP 6B11301 "Transportation Services" can carry out professional activity:
 - in transportation companies;
 - - in warehousing.
 - The objects of professional activity are:
- Organizations and enterprises of public transport, engaged in the transportation of passengers, cargo, freight and luggage, the provision of infrastructure for use, the performance of loading and unloading work, regardless of their form of ownership and organizational and legal forms;
 - traffic safety services of public and private transportation companies;
 - logistics services of production and trade organizations;
 - freight forwarding enterprises and organizations;
- state transport inspection services, marketing services and units for the study and maintenance of the transportation services market;
- production and sales systems, organizations and enterprises of information support of production and technological systems; - research and design organizations engaged in activities in the field of development of transport and logistics services, organization and safety of traffic;
- organizations carrying out educational activity on the basic professional educational programs and on the basic programs of professional training.

Subjects of professional activity:

- transportation, organization of multimodal transportation, value added services, warehousing, routing and dispatching.

Types of professional activities

The bachelor who graduated from EP 6B11301 "Transportation Services" in the direction of training 6B113 "Transportation Services" is prepared for the following types of professional activity:

- production-technological;
- organizational and managerial;
- research;
- scientific and pedagogical;
- design and construction.

2. Goal and objectives of the educational program

Purpose of the EP: To provide the labor market with qualified personnel in the field of logistics and organization of transport services, formation of knowledge, skills and abilities that allow them to make effective management decisions in a professional environment.

EP Objectives:

- Task 1: Preparation of a graduate capable of communicating orally and in writing in Kazakh, Russian and foreign languages to solve problems of interpersonal and professional nature, demonstrating new knowledge, skills and abilities in the field of logistics and organization of transportation;
- Task 2: Preparation of a graduate able to apply information and communication technologies in professional activities to solve various applied problems in the field of transportation, warehousing with the help of methods of mathematical and statistical analysis and modeling;
- Task 3: Preparation of a graduate with acquired competences of development of possible routes, schemes of cargo transportation from the point of departure to the point of destination, design of logistics processes when making strategic, tactical and operational decisions in the logistics system;
- Task 4: Preparation of a graduate who knows the basic rules and procedure of registration of shipping, transportation and forwarding documents for cargo flow management in terminals, multimodal transportation, customs, production and warehousing complex;
- Task 5: Preparation of a graduate capable of controlling logistics processes, analyze and evaluate logistics risks and make appropriate decisions to prevent and reduce them.

3. Requirements for assessing the learning outcomes of the educational program

The educational program is developed in accordance with the State obligatory standards of higher and postgraduate education, approved by the order of the Minister of Science and Higher Education of the Republic of Kazakhstan from July 20, 2022 № 2 (registered in the Register of state registration of normative legal acts under № 28916) and reflects the learning outcomes, on the basis of which

are developed curricula (work study plans, individual study plans of students) and work study programs for disciplines (syllabus). Mastering of disciplines not less than 10% of the total volume of credits of the educational program with the use of MOOCs on the official platform https://polytechonline.kz/cabinet/login/index.php/.

Assessment of learning outcomes is conducted by developed test tasks within the educational program in accordance with the requirements of the state compulsory standard of higher and postgraduate education.

During the assessment of learning outcomes for students are created uniform conditions and equal opportunities to demonstrate the level of their knowledge, skills and abilities.

When conducting interim certification in online form, online proctoring is applied.

4. Passport of the educational program

4.1. General information

No	Название поля	Примечание
1	Area code and classification field of education	6B11 Services
2	Code and classification of training directions	6B113 Transportation services
3	Group of educational programs	B095 Transportation services
4	Name of educational program program	6B11301 Transportation services
5	Brief description of the educational program	EP 6B11301-Transportation Services defines program educational objectives, student learning outcomes, necessary conditions, content and technologies for the implementation of the educational process, evaluation and analysis of the quality of students during training and after graduation. The EP includes the curriculum, content of disciplines, learning outcomes and other materials to ensure quality education of students.
6	Purpose of the EP	To provide the labor market with qualified personnel in the field of logistics and organization of transport services, formation of knowledge, skills and abilities enabling them to make effective managerial decisions in the professional environment.
7	Type of EP	New EP
8	Level according to the NQF	6
9	Level according to the SQF	6
10	Distinctive features of the EP	No
11	List of competencies of the	B - Basic knowledge, skills and abilities

educational program:

- B1 Possession of basic knowledge in the field of natural science (social, humanitarian, economic) disciplines, contributing to the formation of a highly educated person with a broad outlook and culture of thinking;
- B2 Possession of skills of handling modern technology, ability to use information technologies in the sphere of professional activity;
- B3 Possession of skills of acquisition of new knowledge necessary for daily professional activity and further education in the magistracy;
- B4 Possession of one of the languages of the far abroad at the level not lower than the spoken one;
- B5 Possession of basic knowledge in the field of general theoretical disciplines, contributing to the formation of the foundations of a scientific worldview, the development of logical thinking, the ability to analyze physical processes, the ability and willingness to participate in the development of modern theoretical and experimental research methods;

P - Professional competencies:

- P1 a wide range of theoretical and practical knowledge in the professional field;
- P2 readiness to participate in the team of performers in the development of transportation and transport-logistic processes, their elements and technological documentation;
- P3 ability to choose transportation and transporttechnological machines and equipment of various purposes taking into account the influence of external factors and the requirements of safe and efficient operation and cost;
- P4 ability to master technologies and methods of cargo and passenger transportation;
- P5 knowledge of technical conditions and rules of rational operation of transportation and transport-technological machines and equipment;
- P6 ability to assess the risk and determine measures to ensure safe and efficient operation of vehicles;
- P7 ability to plan and organize the work of transport complexes of cities and regions, organization of rational interaction of transport types, which make up a single transport system, in the transportation of passengers, luggage, cargo and cargo;
- P8 ability to organize rational interaction of different types of transport in a unified transport system and effective commercial work at the object of transport, development and implementation of rational methods of work with the client;
- P9 ability to monitor and controlling logistics processes;
- P10 ability to search for ways to improve the quality of transport and logistics services for cargo owners, development of commodity market

infrastructure and distribution channels, as well as to determine the parameters of optimization of logistics transport chains and links, taking into account the criteria of

optimality;

- P11 ability to provide consignors and consignees with services: on execution of transportation documents, delivery and receipt, importation and exportation of cargoes; on performance of loading and unloading and warehousing operations; on preparation of rolling stock; on cargo insurance, customs clearance of cargoes and vehicles; on provision of information and financial services;
- P12 ability to develop the most effective schemes of organization of vehicle traffic and apply the latest technologies of vehicle traffic management;
- P13 ability to identify priorities for solving transport problems taking into account economic efficiency and environmental safety indicators and use modern information technologies as a tool to optimize management processes in the transport complex;
- P14 ability to design logistics systems of cargo and passenger delivery, selection of logistics intermediary, carrier and forwarder on the basis of multi-criteria approach;
- P15 ability to develop projects and implement: modern logistics systems and technologies for transport organizations, technologies of intermodal and multimodal transportation, optimal routing;

O - General human, socio-ethical competencies:

- O1 knowledge of traditions and culture of the peoples of Kazakhstan and compliance with the norms of business ethics, possession of ethical and legal norms of behavior
- O2 to be tolerant to traditions, culture of other peoples of the world; O3 knowledge of the basics of the legal system and legislation of Kazakhstan;
- O4 knowledge of trends of social development of society, ability to adequately navigate in various social situations;
- O5 awareness of the social significance of their future profession, possessing high motivation to perform professional activities;
- O6 possession of basic methods of protection of production personnel and population from possible consequences of accidents, catastrophes, natural disasters;

C - Specific and Management Competencies:

- C1- independent management and control of the processes of work and learning activities within the framework of the strategy, policy and goals of the organization, discussion of the problem, argumentation of conclusions and competent operation of information;
- C2 mastery of the basics of economic knowledge;

		C3 - knowledge and understanding of the goals and
		methods of state regulation of the economy, the role
		of the public sector in the economy;
		C4 - ability to search, analyze and evaluate
		information for the preparation and adoption of
		managerial decisions, readiness to bear
		responsibility for them, as well as to give
		assignments, manage the actions of others, taking
		into account the abilities, capabilities and motivation
		of employees;
		C5 - ability to navigate modern information flows
		and adapt to dynamically changing phenomena and
		processes in the world economy;
		C6 - to be flexible and mobile in various conditions
		and situations related to professional activity;
		C7 - knowledge of classification and assignments of
		types of transport and means of transportation, modes of transportation, functional areas of
		logistics;
		C8 - is able to carry out calculations of costs in the
		organization of transportation to determine the most
		optimal routes;
		C9 - is able to carry out calculations for determining
		the capacity of a warehouse, justify their choice for
		given conditions and storage volumes;
		C10 - is able to take part in the calculation and
		design of transportation systems, freight
		transportation.
12	Educational Program	LO1: Establishes, solves and analyzes the results of
	Learning Outcomes:	solving complex problems in the field of transport
		infrastructure, warehousing logistics, cargo
		transportation both domestically and internationally
		in the field of transportation infrastructure,
		warehousing logistics, cargo transportation both
		domestically and internationally.
		LO2: Develops a body of knowledge for designing
		intelligent systems, applies modern intelligent
		transportation systems to solve applied problems in
		transportation and logistics.
		LO3: Proves application of mathematical terms in
		problem solving
		LO4: Uses information and communication
		technologies in professional activity to solve various
		• •
1		applied problems in the field of transportation,
		applied problems in the field of transportation, warehousing using methods of mathematical and
		applied problems in the field of transportation, warehousing using methods of mathematical and statistical analysis and modeling.
		applied problems in the field of transportation, warehousing using methods of mathematical and statistical analysis and modeling. LO5: Develops managerial decisions in the field of
		applied problems in the field of transportation, warehousing using methods of mathematical and statistical analysis and modeling. LO5: Develops managerial decisions in the field of transportation services and logistics functions on the
		applied problems in the field of transportation, warehousing using methods of mathematical and statistical analysis and modeling. LO5: Develops managerial decisions in the field of transportation services and logistics functions on the basis of broad fundamental and applied knowledge.
		applied problems in the field of transportation, warehousing using methods of mathematical and statistical analysis and modeling. LO5: Develops managerial decisions in the field of transportation services and logistics functions on the basis of broad fundamental and applied knowledge. LO6: Conducts technical and economic analysis of
		applied problems in the field of transportation, warehousing using methods of mathematical and statistical analysis and modeling. LO5: Develops managerial decisions in the field of transportation services and logistics functions on the basis of broad fundamental and applied knowledge. LO6: Conducts technical and economic analysis of transportation and logistics facilities and processes,
		applied problems in the field of transportation, warehousing using methods of mathematical and statistical analysis and modeling. LO5: Develops managerial decisions in the field of transportation services and logistics functions on the basis of broad fundamental and applied knowledge. LO6: Conducts technical and economic analysis of transportation and logistics facilities and processes, evaluates the results of the analysis and reasonably
		applied problems in the field of transportation, warehousing using methods of mathematical and statistical analysis and modeling. LO5: Develops managerial decisions in the field of transportation services and logistics functions on the basis of broad fundamental and applied knowledge. LO6: Conducts technical and economic analysis of transportation and logistics facilities and processes,

13 14 15 16	Form of studying Term of study Loan volume Languages of instruction	processes based on personal leadership skills, entrepreneurial skills, financial literacy, knowledge of sustainability principles and anti-corruption policy provisions. LO8: Applies automatic design programs to design transport facilities and means, tools and methods of project management to develop logistics processes, warehouses, material flow control at transport infrastructure facilities. LO9: Conducts controlling of logistics processes, analyzes and evaluates logistics risks and makes appropriate decisions on risk prevention and mitigation. LO10: Applies knowledge of technical conditions and rules of rational operation of transportation and transport-technological machines and equipment. LO11: Decides on issues to ensure the safety of personnel, transportation process, operation of vehicles and cargo storage services. LO12: Makes decisions in professional activity using normative and legal documentation, theoretical and applied bases. LO13: Develops effective cargo delivery schemes, analyzes, plans and controls technological processes of transport and logistics facilities, draws up the relevant transport documentation. LO14: Solves problems in logistics on the basis of building mathematical models and applying mathematical methods. LO15: Makes decisions in material resources management at production enterprises using logistics approach and information technologies. full-time, online 4 240 Kazakh, Russian, English
17	Academic degree awarded degree	Bachelor's Degree in Services
18	Developer(s) and authors:	Mukhanova G.S., Bekzhanova S.E., Tymbaeva J.M., Bolatkyzy S., Tulebaev M.

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

№	Name of discipline	Brief description of the	Numb				F	ormat	ive lea	arning	outco	mes (co	odes)					
	1	discipline	er of	LO1	LO2	LO3							LO ₁₀	LO11	LO12	LO13	LO14	LO15
			credits															
		Cyc	le of ge	neral	edu	cation	discip	lines										
			Con	npuls	ory c	ompor	nent											i
1	Foreign language	English is a discipline of the general education cycle. After determining the level (according to the results of diagnostic testing or IELTS results), students are divided into groups and disciplines. The name of the discipline corresponds to the level of English proficiency.	10						v			V						
2	Kazakh (Russian) language	When moving from level to level, prerequisites and postrequisites of disciplines are observed.	10						v			v						
3	Physical Education	The purpose of the discipline is the practical use of the skills of performing the basic elements of athletics techniques, sports games, gymnastics and a set of standards for general physical training, including professionally applied physical training or one of the sports, methods of conducting independent physical exercises.	8						v			v						
4	Information and Communication Technologies		5						v			v						

	(MOOC)	Kazakh (Russian) language are considered. The course covers the specifics of the scientific style in order to develop and activate the professional communication skills and abilities of students, allows students to practically master the basics of the scientific style and develops the ability to produce a structural and semantic analysis of the text.								
5	History of Kazakhstan	Required component. The task of studying the discipline is to acquire theoretical knowledge about information processes, new information technologies, local and global computer networks, methods of information protection; obtaining skills in the use of text editors and spreadsheet processors; creation of databases and various categories of application programs	5			v	v			
6	Philosophy (MOOC)	Philosophy forms and develops critical and creative thinking, worldview and culture, provides knowledge about the most general and fundamental problems of being and endows them with a methodology for solving various theoretical practical issues. Philosophy expands the horizon of vision of the modern world, forms	5			V	V			

		citizenship and patriotism, contributes to the education of self-esteem, awareness of the value of human existence. It teaches to think and act correctly, develops the skills of practical and cognitive activity, helps to seek and find ways and means of life in harmony with oneself, society, and the world around.									
7	Module of Social and Political Knowledge (Sociology, Political Science)	Studying the course contributes to the formation of students' theoretical knowledge about society as an integral system, provides the political aspect of training a highly qualified specialist based on modern world and domestic political thought. The discipline is designed to improve the quality of both general humanitarian and professional training of students. Knowledge in the field of sociology and political science is necessary for understanding political processes, for forming a political culture, developing a personal position and a clearer understanding of the measure of one's responsibility.	3			V		V			
8	Module of socio- political knowledge (cultural studies and psychology)	The module of socio-political knowledge (culturology, psychology) is designed to acquaint students with the cultural achievements of	5			V		V			

	1:1 6 41:											
	mankind, for their											ı
	understanding and assimilation											
	of the main forms and universal											
	patterns of the formation and											1
	development of culture. During											1
	the course of cultural studies,											j l
	general problems of the theory											
	of culture, leading cultural											
	concepts, universal patterns and											
	mechanisms for the formation											I
	and development of culture, the											
	main historical stages of the											
	formation and development of											
	Kazakhstani culture are											
	considered.											1
	Cycl	e of ge	neral	educ	ation	discip	lines					
		E	lectiv	e con	ponei	nt						
ç	Fundamentals of anti- The course introduces students											
	corruption culture and to the improvement of socio-											
	law economic relations of											
	Kazakhstan society,											
	psychological features of corrupt											I
	behavior. Special attention is											
	paid to the formation of an anti-											
	corruption culture, legal											I
	responsibility for acts of											I
	corruption in various spheres.	~										I
	The purpose of studying the	5							V			
	discipline «Fundamentals of											1
	anti-corruption culture and law»											
	is to increase public and											
	individual legal awareness and											
	legal culture of students, as well											
	as the formation of a knowledge											1
	system and a civic position on											
	combating corruption as an											
	antisocial phenomenon.											l

		Expected results: to realize the values of moral consciousness and follow moral norms in everyday practice; to work on improving the level of moral and legal culture; to use spiritual and moral mechanisms to prevent corruption.									
10	Fundamentals of research methods	The aim is to provide students with basic research skills. As a result of studying the discipline students will: know the basic concepts and methods of scientific research; be able to independently carry out research work, analyse and summarise scientific information. Content: The essence and role of scientific research. The classification of scientific research. The stages of scientific research. The methodology of scientific research. Theme of scientific research. Rationale for the relevance of the chosen topic. Aims and objectives of the research work. Definition of the object and subject of research. Selection of the methods (methodology) of research. Description of the research process. Discussion of the research results. Formulation of conclusions and assessment of the results. Standards of scientific ethics in the preparation of publications.	5			V					

11	Fundamentals of	Discipline studies the										
11		foundations of economics and										
	entrepreneurship	entrepreneurial activity from the										
	Charepreneurship	point of view of science and law;										
		features, problematic aspects and										
		development prospects; the										
		theory and practice of										
		entrepreneurship as a system of										
		economic and organizational										
		relations of business structures;										
		The readiness of entrepreneurs										
		for innovative susceptibility. The	_									
		discipline reveals the content of	5			V			v			
		entrepreneurial activity, the										
		stages of career, qualities,										
		competencies and responsibility										
		of the entrepreneur, theoretical										
		and practical business planning										
		and economic examination of										
		business ideas, as well as the										
		analysis of the risks of										
		innovative development, the										
		introduction of new technologies										
		and technological solutions.										
12	Ecology and life safety	The discipline studies theoretical										
		and practical skills to create safe,										
		harmless and environmentally										
		friendly living conditions. The										
		impact of natural and man-made										
		hazards on the human body and	_									
		their monitoring; culture of life	5				V					
		safety; industrial sanitation; the impact of harmful substances										
		and sources of pollution on the										
		human body and their maximum										
		permissible concentrations in the										
		air of the working area; natural										
		an of the working area, haturar		1								

		and man-made emergencies.											
13	Basics of Financial	_											
	Literacy	literacy of students on the basis											
		of building a direct link between											
		the acquired knowledge and their											
		practical application.											
		Contents: using in practice all											
		kinds of tools in the field of											
		financial management, saving											
		and increasing savings,	5						V				
		competent budget planning,											
		obtaining practical skills in											
		calculating, paying taxes and											
		correctly filling out tax reports,											
		analyzing financial information,											
		orienting in financial products to											
		choose adequate investment											
		strategies.											
			•			discip							
1.4	Total Anation	The sine of the distinction is to	Ur	uvers	ity co	mpon	ent						
14		The aim of the discipline is to inform students about the nature											
	specialty												
		of their future work, the basic concepts of the functional areas											
		of logistics. After completing the											
		course the student should know											
		the tasks and functions of the											
		functional areas of logistics; -											
		The concepts of material and	5	v		V							
		related information and financial	5	•		•							
		flows; types of material flows.											
		Content of the discipline: The											
		concept, goals and objectives of											
		logistics. The evolution of											
		logistics development. The											
		concept of material flow; types											
		of material flows; logistic stages											

		of material flow movement. Logistics systems and supply chains. Functional areas of logistics. Purchasing logistics. Production logistics. Distribution logistics. Transport logistics. Inventory logistics. Warehousing logistics.										
15	Transport modes interactions	The purpose of the discipline is to study and apply the principles of coherence and consistency of operations (technologies) with the participation of various modes of transport in the general transportation process. Discipline objectives: study of the technical and economic features of modes of transport; technologies of work of modes of transport; technologies of work of modes of transport modes. Discipline content: technical and economic characteristics of transport modes; coordination (agreement) of transportation volumes, technologies, timetables of movement of different types of transport in their interaction; types of transportation with the interaction of various modes of transport. To design transportation with the participation of different modes of transport, the features of the transportation process in the	4	>	>	>	V					

	Global logistics systems	forces of globalization. Globalization and its role in the country's economy. International transport systems, networks and corridors. Analysis of international transportation. Global logistics providers.	4	V		v	v					
17	Cargo handling	The purpose of the discipline is to teach students to develop rational conditions for the transportation and storage of goods for their high-quality delivery. Objectives of the discipline: studying the technical characteristics of cargo, the transport state of cargo, the interaction of cargo with the environment and among themselves; development of optimal conditions for transportation and storage of goods. Course content: transport characteristics and properties of goods; storage modes, methods of storing cargo, peculiarities of packaging and containers, characteristics of cargo hazard, as well as specific properties of cargo. requirements for technical means that perform transportation, cargo operations and storage of goods; rational conditions for the transportation	4	V	V		V		V		v	

		and storage of goods.											
18	Freight transport systems	The purpose of the discipline is to study the principles of operation of transport and handling and storage facilities. Discipline objectives: studying the structure of freight transport systems; analysis of logistics processes in freight transport systems. Upon completion of the course, the student should demonstrate the ability to analyze, synthesize, and design freight transportation systems, and calculate costs. Course content: classification of freight transport systems; structure of freight transport systems; logistics processes and costs in freight transport systems; technical and organizational solutions in freight transport systems.	5			V	V			v		v	
19	Simulation of logistics systems	The aim of the course is to equip students with the skills to develop simulation models and apply them to management decision-making. After completing the course, the student should be able to demonstrate the ability to set and On completion of the course the student will be able to set up and run simulation modeling of engineering logistics systems using AnyLogic software. software package. be able to The	5	V				V					

		content of the discipline: principles and concept of simulation. Building a conceptual model. Processoriented discrete simulation models. The basics of a practical approach to creating simulation models of logistics systems. Modeling and reengineering of logistics processes in supply chains.											
20	Contract logistics	Content of the discipline: Development of outsourcing of logistics business processes. Formation and development of logistics providers. Models of a logistics operator and a logistics integrator. Combining aspects of logistics and financial audit, contractual model of interaction between the customer and the outsourcer, architecture of business processes of the customer's supply chain	5		>	v	V						
21		The aim of the discipline is to prepare students to solve professional tasks related to the use of information systems and technologies to optimise logistics activities. As a result of the discipline the student should know modern information systems and technologies in the functional areas of logistics and master the skills of their application to solve professional problems. Course content:	5	>							v		

	Introduction to information									
	systems and technologies in									
	logistics. Information flows in									
	logistics systems. Logistics									
	information systems: purpose,									
	structure, group classification.									
	Subsystems of information									
	systems: functional and									
	supporting. Elements of the									
	supporting subsystem: hardware,									
	information and mathematical									
	support. Information technology									
	in the field of procurement and									
	distribution. Basic information									
	technology for enterprise									
	management. Information									
	technology in the warehouse									
	sector. RFID and barcode									
	technologies. Information									
	technology in the field of									
	transport. Vehicle tracking and									
	monitoring systems.									
	Geoinformation systems.									
	Modern technologies of									
	enterprise internal document									
	management. Internet / Intranet									
	Technologies. E-commerce									
	technology.									
22 Mathematics	The purpose of mastering the									
	discipline is to form the									
	theoretical and practical									
	foundations of mathematics and									
	its applications. On the basis of	5								V
	studying the mathematics									
	section, to give students the									
	development of thinking and the									
	achievement of mathematical									

		culture, which is necessary for										
		•										
		application in future professional										
		activities. The course is based on										
		the study of mathematical										
		analysis in a volume that allows										
		you to study elementary										
		functions and solve the simplest										
		geometric, physical and other										
		applied problems. The main										
		focus is on differential and										
		integral calculus. The course										
		sections include the differential										
		calculus of functions of one										
		variable, the derivative and										
		differentials, the study of the										
		behavior of functions, complex										
		numbers, and polynomials.										
		Indefinite integrals, their										
		properties and methods of										
		calculation. Certain integrals and										
		their applications. Improper										
		integrals.										
23	Transport management	Purpose - to form students'										
	and marketing	competencies to ensure the										
		effective functioning of										
		transportation companies.										
		Content: The economic nature of										
		transportation services. Features										
		of the transportation services										
		market. Functions of	5		V	v	V		v			
		management in transportation	-									
		companies. Forms of										
		organization of transport										
		companies. Motivation in										
		transportation companies.										
		Marketing complex in										
		transportation companies.										
<u> </u>	1	transportation companies.						L		l		

	Competitiveness of transportation services. Internal and external environment of transportation companies. The student should know the specifics of the transport industry; be able to apply modern approaches in the management of transport companies.								
2.	The purpose of studying the discipline is to form students' scientific ideas about the essence and properties of probabilistic processes, methods of probability theory and mathematical statistics. Upon completion of this course the student should know the basic concepts of combinatorics, basics of probability theory and mathematical statistics; be able to apply standard methods and models to solve probabilistic and statistical problems. The discipline studies random variables, distribution functions and statistical methods of their search and evaluation. The subject of probability theory, probability definitions, elements of combinatorics, random variables and the laws of their distribution are considered. The basics of mathematical statistics are studied - samples, types of samples, point and interval	5							V

		Transport management structure. Functions of departments and transport management services.													
	Transport logistics Data management in	The purpose of the discipline is to provide students with theoretical and practical knowledge of the types of transport and types of vehicles, the choice of carrier and transportation costs. After completing the course the student should know: - modes of transport; - modes of transport; - modes of transport; - modes of transport; - we the knowledge gained in the discipline to select a carrier and determine the optimum mode of transport and transport route. Content of the discipline: The essence and objectives of transport logistics. Formation and development in transport logistics. Transport logistics support. Logistic intermediaries. Shipping Methods. Legal aspects of transport support. Types of transport support. Types of transport, characteristics and technical and economic indicators. Classification of goods and vehicles. The choice of type of vehicle. Transport tariffs and rules for their application. Transport logistics. The aim of the course is for	6	V	v	V	V	V						V	
21	logistics	students to develop practical	5	V						V		V			

		skills in using the professional packages MS Excel, MS Access, Mathcad mathematical processor for data management in logistics. After completing the course the student should demonstrate the ability to process different types of data, apply methods of processing and analysis of information flows in Apply information management techniques to logistics systems; use technology to manage information flows. Content: Data, data sets, data attributes. Different technologies of data processing. Information resources logistics. Data management with the help of MS Excel logic MS Excel logic function. Data processing in the MathCad mathematical processor environment. Managing structural data. Features of working in the database management system environment. Creating a database for a transport company in MS Access.									
28	Transportation economics	The purpose of this course is to form students' understanding of economic principles of functioning and skills of application of methods and tools to improve the efficiency of transportation companies in the market economy. Upon	5		v						

	\neg
completion of the course the	
student will know: - the essence	
of the mechanism of functioning	
of enterprises; - the classification	
of enterprise resources,	
indicators and methods of their	
effective use; - the order of	
formation of cost, income, profit,	
profitability; pricing; taxation of	
enterprises; calculations of	
economic efficiency of	
investment projects; -	
classification, composition and	
methods of assessment of	
production and non-production	
costs. Will be able to: - conduct	
technical and economic analysis	
of the performed works and their	
efficiency; - determine reserves	
of reduction of the cycle of the	
performed works; - evaluate the	
investment attractiveness of	
projects;	
Will be able to: -develop a set of	
measures to improve the	
efficiency of the transport	
company -evaluate the	
profitability of the company; -	
execute the economic activities	
of the transport company. Course	
content: Production process and	
the basic principles of its	
organization. Organizational	
structure of transport company	
resources of the enterprise and indicators of their use. Working	
indicators of their use. Working	

		capital of the enterprise. Labor										ı
		productivity and efficiency of										ı
		human resources. The cost of										ı
		products, services or works.										
		Calculation of the cost of freight										1
		and passenger transportation.										
		Formation of tariffs for cargo										j l
		and passenger transportation.										
		Revenues and profits of cargo										j l
		and passenger transportation.										
		The main indicators										
		characterizing the financial										
		condition of the enterprise										
29	Economic-	The aim of the discipline is to										
	mathematical models											
		theoretical and practical skills to										
	logistics	build mathematical models of										
		various tasks in logistics and										1
		apply methods to solve										
		problems. After completing the										
		course, the student should										
		acquire the following										
		competencies: - know the stages										
		of economic and mathematical										
		modelling; - methods of solving										
		various tasks; know how to -	5	V				V				
		build mathematical models; - be										ı
		able to apply methods of										1
		problem solving; - be able to										
		analyse the results of problem										ı
		solution. Content of discipline:										ı
		Meaningful formulation and										ı
		economic-mathematical model										ı
		of problems. Stages of economic										ı
		and mathematical modelling.										1
		Methods and models of linear										
		programming. Transport										
		programming.										1

30	Training practice	problem of linear programming. Application of the problem of linear programming in production logistics. Linear integer and nonlinear models and methods for their solution. Tasks of scheduling theory and methods for their solution. Graph theory. Stochastic methods and models The purpose of training practice is to deepen, supplement and consolidate theoretical knowledge on the main disciplines of the course, obtained in the course of study. Training practice involves introducing the student to the professional environment, obtaining primary professional skills to collect information on the state of transport networks	3	V		v											
		and infrastructure, transport routes.															
	1		(Cycle	of ba	sic dis	ciplin	es	I	I	1	1	1	1	1	I .	
						comp											
31	Data Analysis in Excel	The purpose of this course is to master the basic methods of quantitative analysis of numerical and non-numerical information in dogistic processes and supply chains. The main task of studying the discipline is to familiarize yourself with the methods of processing statistical information, the main methods of analyzing economic data for	5	v		K					v			v			v

		decision making and foregoeting											
		decision making and forecasting. As a result of studying the											
													1
		discipline, the student must:											1
		master the basic methods of											1
		quantitative analysis of											1
		numerical and non-numerical											1
		economic information in the											1
		Excell environment; know the											1
		basic approaches to forecasting											1
		economic indicators; Be able to											1
		apply methods using application											1
		packages. Content of the											1
		discipline: basic methods of											1
		quantitative analysis of											ł
		numerical and non-numerical											ł
		economic information in Excel											1
		environment; forecasting											ł
		methods; The application of											ł
		forecasting methods of economic											ł
		indicators in Excel environment;											ł
		Management of structured data.											
		Using MS Excel as a database;											ł
		Add-in Analysis Package.											1
		Simulation modelling in MS											1
		Excel using the Monte Carlo											1
		method.											1
32	Business games in	The purpose of the study of the											
32	logistics games in	discipline is the acquisition by											
	logistics	students of decision-making											1
		skills in the event of a variety of											
		situations in logistics systems											
		and supply chains. After	5	v			v	14	3.6	3.6	14		
		completing the course, the	3	\ \ \			v	V	V	V	V		
		student will be able to apply the											
		logistic approach to solve											i l
		various practical problems in											
		professional activities; will											

		acquire decision-making skills when considering various problem situations in logistics systems, production, inventory management, warehousing. The content of the discipline includes: the role of business games in logistics; structure and rules of business games; conducting business games that consider various practical situations in logistics, transportation of goods, the functioning of logistics centers, in the warehouse, in the distribution of finished products; analysis of the results of business games.										
33	Imitating games in logistics	The purpose of the discipline is to acquire the skills of problem solving in logistics, organization of transportation, management of logistics processes in transport and production based on the application of simulation games method. As a result of studying the discipline the student should know the methods of simulation modeling; be able to conduct experiments on the simulation model, analyze logistics processes, find problem areas and make decisions to eliminate problems; will acquire the skills of working with simulation models of various logistics systems and processes. Content	5	V			V	V				

	of the discipline: Simulation							
	game as an interactive teaching							
	method. Stages of conducting a							
	simulation game: definition of							
	the rules of the game, game							
	process and analysis of the							
	results. Simulation games of							
	different economic and logistic							
	systems: structure, basic							
	economic systems: structure,							
	objectives, functions. Simulation							
	games "Inventory management",							
	"Warehouse", "Supply",							1
	"Terminal", "Sea freight port".							
	Conducting experimental							
	research on models. Identifying							
	problems and solutions. Analysis							
	of experimental results. Forms of							
	presentation of results.							
	Processing of experimental							
	results. Drawing conclusions							
	from the simulation game.							
34 Intelligent transpo	ĕ							
systems	Intelligent Transport Systems							
Systems	(ITS). ITS classification. The							
	main areas of application of ITS.							
	ITS and logistics. Introduction to							
	ITS Project Development Stages							
	of the development of ITS							
	projects. Basic definitions. 6						v	
	Principles of developing						·	
	technical specifications for the							
	justification of the ITS project.							.
	1 0							.
	Development of the architecture							
	of performance indicators for the							
	ITS project. ITS models.							
	Development of the ITS project.							

		The etimestrine and constraint of											$\overline{}$
		The structure and composition of											
		the ITS system project.											
		Examples of the use of ITS in											1
		logistics systems. Promising ITS											I
		in logistics and supply chains											1
35													I
		develop skills in developing											ı
	logistics	logistics process management											I
		information subsystems. As a											I
		result of the course the student											
		will know the principles of											
		developing logistics information											
		systems and be able to develop											
		subsystems of logistics											
		information systems. Course											
		content. Principles of developing											
		logistics information systems											I
		(LIS). Functionalities, business											I
		processes and users of LIS. LIS	6	v							v		
		handbook. LIS database. Rapid											
		response systems. Decision-											
		making systems. Information											
		flows in LIS: parameters,											I
		classification. Electronic data											I
		interchange (EDI) systems. EDI											I
		platforms, connections and											ı
		standards. Electronic											I
		identification. Basic automated											I
		identification systems.											I
		Technologies for supply chain											l
		monitoring systems. Virtual											l
		logistics centres.											
36	Commercial logistics	The aim of the discipline is to											
	Commercial logistics	provide students with systematic											1
		knowledge and understanding of	5		v	v	V	v					ı
		the conceptual foundations of	J		,	•	•	,					
		logistics as an instrument of											
L		rogistics as an instrument of							<u> </u>		<u> </u>		

	market economy, acquisition of
	skills and abilities to The
	objective of the course is to
	provide students with a
	systematic knowledge and
	understanding of the conceptual
	foundations of logistics as a
	market economy tool. After
	completing the course, the
	student should be able to set
	goals and formulate tasks related
	to the implementation of be able
	to use the methods of
	commercial logistics for solving
	them; be able to develop
	logistical strategies for material
	flow distribution networks
	develop skills in adapting to
	typical theoretical and practical
	problems of commercial
	logistics. Content of the
	discipline: Introduction to
	commercial logistics. Logistics
	flows and systems in commercial
	logistics. Classification of
	logistics flows. Types of
	logistics systems. Strategic
	planning and system
	management in commercial
	logistics. The relationship
	between logistics systems of
	various types. Wholesale and
	retail turnover in logistics
	systems. Forms of movement of
	material resources and goods.
	Logistics channels.
	Characteristics and content of

		channel levels of various types. Logistics in the links of commodity movement. Control and management in commercial logistics. Planning and forecasting in commercial logistics.										
37	Mathematical statistics on transportation	The purpose of teaching the discipline is to equip students with the skills to carry out analyses of freight, traffic flows based on statistical methods. After completing the course the student should be able to demonstrate the ability to carry out statistical analysis of material and transport flows; data processing. Content of the discipline: Introduction Purpose, tasks and organization of statistics. Processing statistical data and establishing the law of distribution of random variables. Fundamentals of mathematical statistics. The sequence of the statistical study. Determination of the numerical characteristics of a statistical distribution. Construction of a statistical series and a histogram. Testing the hypothesis put forward. Basic principles of organization of statistics on transport. Statistical distribution. Expected value. Dispersion. The coefficient of variation. Classification of tasks. Linear	5	V			>	V				V

		general view. Transport. Linear distribution. Technical and economic tasks. Optimal use of stationary equipment. Optimum use of rolling stock. Optimal use of materials and fuels. Operational scheduling. Comprehensive optimization of current planning. Statistics of freight and passenger traffic.										
	making in logistics	Methods and models of analysis and selection of effective solutions in uncertainty conditions for logistics systems are considered. Attention is paid to their specifics applied to the problems of inventory management in conditions of uncertainty. Analyzed anomalous phenomena of "blockages" of the choice of alternatives for optimization of such systems. Special modifications of traditional criteria of choice, allowing to eliminate these phenomena, so that more effectively adapt the best choice of alternative to the preferences of the person, the decision maker. The methods of analysis and optimization of such systems with taking into account the time value of money.	5		V		V					
39	Production and logistics modeling	The purpose of the discipline is to study the basic concepts and methods of modelling and simulating production and	5	v				v				

		logistics processes. Content: Implementation of simulation in production and logistics. Basic concepts of modeling and simulation. Conducting a simulation study (problem definition, system analysis / conceptual model, data collection and preparation, implementation / execution model, verification and validation, experiments and analysis, simulation results). Event-discrete modeling in manufacturing and logistics. Typical applications for modeling in manufacturing and logistics. Work in AnyLogic environment. Software tools for modeling in manufacturing and logistics. Independent work with software for discrete event simulation. Advanced simulation concepts (discrete velocity simulation, system dynamics									
		simulation)									
40	Multimodal transport technology	The aim of the discipline is to master the multimodal technology of the transport process for the delivery of various types of cargo. After completing the course the student should know legislative and legal documents in multimodal transport; organization and technology of multimodal transport and rules	5	V			V				

		of looding andlooding 1		1							
		of loading and unloading and									
		storage of cargo for specific									
		operating conditions; be able to:									
		carry out the selection of									
		transport and loading and									
		unloading means according to									
		the criteria of safety and security									
		of transported cargo; possess the									
		skills to determine the need to									
		develop skills in determining the									
		requirements for the									
		development of transport									
		networks and means of transport.									
		Content of the course: Features									
		of multimodal transportation									
		systems. Strategies for									
		multimodal transportation									
		systems. Transport expedition in									
		multimodal transportation									
		systems. Integral (universal)									
		transport operator. Criteria for									
		decision-making when choosing									
		a mode of transport. Intermodal									
		technologies of multimodal									
		transportation system.									
		Legislative documents in the									
		field of multimodal									
		transportation systems. World									
		transport systems (transport									
		corridors).									
41	Fundamentals of	Purpose: to familiarize students									
	Artificial Intelligence	with the basic concepts, methods									
		and technologies in the field of									
		artificial intelligence: machine	5	v	v						
		learning, computer vision,		•	•						
		natural language processing, etc.									
		Contents: general definition of									
		Contonts, general definition of									

		artificial intelligence, intelligent agents, information retrieval and state space exploration, logical agents, architecture of artificial intelligence systems, expert systems, observational learning, statistical learning methods, probabilistic processing of linguistic information, semantic models, natural language processing systems.										
42	manufacturing processes	The aim of the discipline is to acquire theoretical knowledge and practical skills in the organisation of enterprise production processes. As a result of the discipline students should master the theoretical knowledge of the basic concepts and organisation of production processes; be able to analyse the theoretical foundations of production processes; have an idea of the types of basic technological processes. Contents: Standard Manufacturing Processes. Integration of technological processes into the production process. Industrial production technology. Organizational aspects of production planning and quality management.	5	v					V		V	
43	Transport network and its role in the economy	The purpose of the discipline is the acquisition of knowledge and skills for building transport networks. The discipline will be	5	V	v							

		studied. Transport network concept. The role of the transport network in the development of a region, country. Types of transport networks. Modeling of transport networks. Graph theory for modeling transport networks. Transport network indicators. Methods for increasing the reliability of the transport network. Prospects for the development of transport networks.											
44	Legal regulation of intellectual property	Purpose: the goal is to form a holistic understanding of the system of legal regulation of intellectual property, including basic principles, mechanisms for protecting intellectual property rights and features of their implementation. Content: The discipline covers the basics of IP law, including copyright, patents, trademarks, and industrial designs. Students learn how to protect and manage intellectual property rights, and consider legal disputes and methods for resolving them.	5					V			V		
45	Transport systems	The discipline considers: an introduction to the transport system. Definitions and concepts of the transport system. Types and composition of transport systems. Issues of transport innovations aimed at solving public and environmental	5	V	v	v		V					

		problems, increasing productivity and reducing production and time costs in the transport system. Automation systems to increase efficiency and reduce transportation costs. Modernization of "high intelligence" in public transport for the systematic management of human flows and timely satisfaction of the need for a vehicle "here and now".									
46	Logistics technologies of industrial transport	The purpose of the discipline is for students to acquire basic theoretical knowledge and practical skills in the field of organizing the work of industrial transport. Content: Industrial transport: general provisions, the main components of industrial transport, special types of industrial transport. Logistics technologies of industrial enterprises. Principles of interaction between mainline and industrial transport. Unified technological process of industrial transport operation. Regulatory regulation of services for the use of access roads. Classification of access roads. The contract for the services of access roads. A contract for the services of supplying and cleaning wagons to the access roads.	5	v				V			

47	Logistics process management	Learning objectives: To acquire, deepen and consolidate knowledge about management strategies, management and organizational concepts in the field of logistics, description / modeling of logistics processes, logic and management technologies, information and management systems of logistics. Discipline content: Subject, objectives, goals of management of the logistics process. The basics of managing automated systems of material	5	v		v		v	v		
		flows and managing complex logistics processes. Logistic process control / process control. Conceptual design of management, development of a logistics process									
48	sustainable	Purpose: the goal is for students to master the theoretical foundations and practical skills in the field of sustainable development and ESG, as well as to develop an understanding of the role of these aspects in the modern economic and social development of Kazakhstan. Contents: introduces the principles of sustainable development and the implementation of ESG practices in Kazakhstan, includes the study of national and international standards, analysis	5				٧				

		of successful ESG projects and													
		strategies for their													
		implementation in enterprises													
		and organizations.													
			Cycle	of and	oiolis	od dia	oinlin	0.0							
								es							
40	Dur de die et le cieties	The size of the distinction is to	U	mvers	sity co	mpon	lent				l		1	l	
49	Production logistics	The aim of the discipline is to													
		equip students with the skills to													
		manage the flow of materials in													
		production. As a result of													
		mastering the discipline the													
		student should: Knowledge: -													
		decision-making methods in the													
		management of operational													
		(production) activities of													
		organisations; - classification of													
		resources of the enterprise,													
		indicators and methods of their													
		effective use; be able to: -													
		conduct technical and economic													
		analysis of performed works and													
		their efficiency; - determine the	5						V	V			V		
		reserves to reduce the cycle of													
		work performed; - to plan and													
		regulate operational logistic													
		activities in supply chains.													
		Content of the discipline: •													
		concepts and essence of													
		production logistics; • principles													
		of organization and structure of													
		the production process, within													
		which the material flow is													
		organized; • types of material													
		flows movement; • systems and													
		methods of operational planning													
		and material flow management,													
		including those used in the													

		concepts of MRP I, MRP II, ERP, JIT and the KANBAN system.										
50	Warehouse logistics	The aim of the course is to provide students with theoretical and practical knowledge of warehouse organisation. After completing the course, the student should know: - classes of warehouses; - methods of storage; - warehouse management technologies; be able to: - carry out warehouse planning; - the costs of using the warehouse. Content of the discipline: The role and place of a warehouse in the logistics system, their functions and tasks in logistics. Conditions for the effective functioning of the warehouse in the logistics system. Characteristics of the main storage areas. Warehouse planning. Packaging in warehousing logistics. Product quality control. Methods of inventory accounting and control in the warehouse. Warehouse design. Development of an optimal warehousing system. Automated warehouse management systems. Methodological development of the structure of the warehouse system of the enterprise based on the assessment of the current state and strategic planning of	4	v	V		v	V				

		the enterprise. The investment program of the project of reorganization of the structure of the warehouse system of the enterprise. Warehouse system of a wholesale and retail trade enterprise operating in the field of Internet business.									
51	Inventory management in logistics systems	The purpose of teaching the discipline is to provide students with an understanding of the stock formation mechanism, the principles and methods of inventory management in logistics systems, to develop the skills of determining the optimal level of stock and the ability to manage the process of stock formation. As a result of mastering the discipline the student should: Know: - classification of inventory; - the objectives of inventory formation; - supply calculation methods; - the logistical approach to inventory management. To be able to: - Calculate the amount of optimum order size; - estimate the costs of stock formation and storage; Have the skills to: - to independently learn new knowledge in the professional sphere; - know how to: independently acquire new knowledge in the professional sphere; determine the size of the	4	V			>		>		

		nagagary material steels										
		necessary material stock. Content of the discipline:										
		Inventory as an object of										
		management in the logistics										
		system. Management of different										
		groups of stock positions.										
		Inventory movement in the										
		logistics system. Indicators of										
		inventory status in the logistics										
		system. Inventory management										
		process in a logistics system.										
		Costs associated with inventory										
		in a logistics system. Evaluation										
		and analysis of the accuracy of										
		inventory requirement										
		forecasting. Determination of the volume of inventory										
		requirement. A modification of the classical formula for										
		the classical formula for calculating optimum order size.										
		Inventory management models										
		in a logistics system. Inventory										
		management under uncertainty.										
52	Cumply shain	The purpose of the discipline is										
32	* * *	to study the essence and content										
	management	of supply chain management as a										
		science, as well as the areas of										
		application of its concepts in										
		practice. As a result of mastering										
		the discipline the student should:										
		Knowledge: - Classification of	6	v	V		V	v		v		
		supply chain; - Objective and										
		process approaches to supply										
		chain management; - Key drivers										
		of supply chain performance.										
		Acquire the skills to: - Using key										
		supply chain design factors at a										
		supply chain design factors at a				<u> </u>						

	1	. 1 1					1						1		1	
		conceptual and practical level; -														
		Identify different ways to														
		improve the supply chain; -														
		Supply chain design; - Practice														
		supply chain management and														
		performance measurement; - Use														
		of information technology.														
		Content of the discipline: The														
		course content: the concept of														
		logistics system and supply														
		chain management; the essence														
		and current trends in the														
		development of supply chains;														
		integration in supply chain														
		management; functional cycle of														
		logistics; strategic planning and														
		methods of designing supply														
		chains; controlling key processes														
		in supply chains; design of														
		logistics systems and supply														
		chains; inventory management in														
		the supply chain; logistics audit														
		of supply chains; information														
		integration of processes in														
		supply chain management.														
53	Production practice I	Industrial practice is an														
	1	important stage of practical														
		training of specialists in logistics														
		and transportation organization.														
		Trainees acquire professional														
		practical skills of their future	•													
		profession in transportation,	2		V	V			V	V						
		logistics companies, or														
		subdivisions of production or														
		commercial companies. They														
		master new technologies and														
		information systems in logistics														
Ь	I .			1			!	1	1	l	1		l			

	1				1									1
		and transportation organization												
<u>~ 4</u>	D 1 4' 4' II	at their workplaces												
54	Production practice II	Trainees are involved in solving												
		logistics problems,												
		transportation management,												
		work on information systems in logistics and transportation	3						V	V		v		
		organization, warehousing, research center for the study of												
		transport flows.												
			Cycle	of and	oiolia	od dia	oinlin	og.						
						zeu uis npone		es						
55	Outsourcing in	The content of the discipline:	<u> </u>	lectiv	ve coi	пропе	1111							
	logistics	The problem of insourcing-												
	logistics	outsourcing logistics as a kind of												
		problem MOV (make or buy) –												
		"To make or buy". Formation of												
		the logistics outsourcing market												
		(providers, consumers,												
		intermediaries, developers).												
		Structure and evolution of												
		outsourced functions.												
		Characteristics of the main												
		reasons for the decision-making	5											
		of the MOU. Economic and	3	V	V			V	V					
		strategic factors. Quality												
		indicators of logistics service.												
		Characteristics and dynamics of												
		the world and Kazakhstan												
		logistics services markets. The												
		structure of the global logistics												
		outsourcing market. Logistics												
		principles in the organization of												
		logistics outsourcing. Criteria												
		and approaches to choosing a												
		logistics provider.												
56	Purchasing logistics	The content of the discipline:	5		V	V				V	V			

		The essence, goals and objectives of procurement logistics. Legal basis of procurement. Supply service at the enterprise. Study of the commodity market. Choosing a supplier. Procurement implementation, procurement budget. Organization and planning of the material and technical support of the enterprise.										
57	Customs logistics	The objective is to acquire knowledge about the procedure and principles of movement of goods and means of transport across the customs border. Content: Basic concepts in the theory and practice of customs logistics. Customs legislation and organization of customs affairs of the Republic of Kazakhstan. Types of customs procedures. The order of movement of goods across the customs border. Customs clearance of goods and vehicles. Customs carrier. Customs payments and taxes. Determination of customs value. Customs control. Declaration of goods. Customs documents.	5		V	V						
58	Innovative directions in the organization of freight transportation	The concept and importance of innovative directions in the organization of freight transportation; ways to improve the organization of the	6	V						v		

		transportation process; ways to reduce the cost of operating rolling stock; innovative technologies in the organization of freight transportation; an integrated approach to the organization of road transport at a motor transport enterprise (ATP) in the context of the commercialization of the sale of motor transport services.								
59	Teamwork an business communications	d The aim of the course is to develop students' teamwork and business communication skills within the rules of professional ethics and business etiquette. After completing the course the student should know: - the rules of business meetings, meetings, discussions, negotiations, conversations and internet communications within the framework of professional ethics and business etiquette; - methods of establishing cooperation and techniques of forming team cohesion and dealing with conflict situations. be able to: - interact with management and employees. Content of the discipline: Personal and interpersonal effectiveness in the process of team formation. Culture of business communications. Team building and team building. Business ethics and its role in the process	5				V			

		of forming team goals, values, group cohesion and economic effect. Personality and its role in the process of team building. Interpersonal communications in the process of team building. Goals, objectives and technologies of team formation. Command interaction. System and technology of business communications. Features of business communication as a process. Efficiency of business communication. Conducting business meetings: conversations and negotiations. Written form of business communication. Features of public communication. Modern forms of Internet										
60	Containerization of freight transport	Content of the discipline: Transport and transit potential of the Republic of Kazakhstan. The role of container transportation in the development of transit potential. Technical support of the container transport system. Technical equipment and technology of operation of container points on railway transport. Plan for the formation of wagons with containers. Organization of container trains. Theoretical foundations of the formation of the international rail freight transportation	4				V				v	

			market.									
61	Controlling	logistics	The purpose of the discipline is									
	systems		to develop students' knowledge									
			and skills in implementing									
			controlling functions in logistics									
			systems. After completing the									
			course, the student should know:									
			- essence, functions and types of									
			controlling; - basics of									
			operational and strategic									
			management logistics systems; -									
			key performance indicators of									
			logistics systems; Be able to: -									
			use the methodology for									
			developing key indicators of the									
			system; possess the skills of									
			controlling logistics systems.									
			The content of the discipline:									
			Objective prerequisites and	5						v		
			factors for the use of controlling	5						•		
			in modern logistics systems.									
			Controlling and its place in the									
			management of the logistics									
			system. Concepts of controlling,									
			goals, tasks, functions and									
			models of controlling logistics									
			systems. Strategic and									
			operational controlling in the									
			system management of logistics									
			activities. Tools for strategic									
			controlling of logistics systems.									
			Accounting and cost control in									
			the system of controlling									
			logistics activities and its									
			methods. Organization of									
			controlling the logistics system.									
			Information technology in									

		controlling logistics systems.										
62	Logistics of freight	The purpose of teaching the										
	forwarding services	discipline is the assimilation by										
		students of theoretical										
		foundations and practical skills										
		in the field of planning,										
		organization and effective										
		management of freight										
		forwarding. Description of										
		discipline: - scientific and										
		methodological foundations of										
		the logistics of freight										
		forwarding services; - Logistic										
		concept of a transport										
		expedition; - the specifics of the objects of the logistics of freight										
		forwarding services - freight										
		flows and their classification; - a	5	v	v	v						
		functional logistics contour of	3	•	•	•						
		the logistics of transport and										
		forwarding services; - The										
		principles and methods of										
		logistics in organizing the search										
		for orders and the										
		implementation of services; -										
		Features of product										
		transportation in the logistics of										
		freight forwarding services,										
		terminal and modal										
		transportation; - the ability to										
		evaluate the effectiveness of the										
		application of the principles and										
		methods of logistics in freight										
62	New research	forwarding activities. The purpose of the discipline is										
03	directions in logistics	to develop students' skills in	5	v			v					
	uncetions in logistics	conducting research work and	J	v			v					
		conducting research work allu										

		11		1	1			1	1		I		1	
		identifying innovative solutions												
		in the professional field. After												
		completing the course, the												
		student should know the basic												
		concepts of scientific research,												
		ideas about the methods of												
		searching for new knowledge												
		and scientific information in the												
		professional field; be able to												
		search and review scientific												
		literature in the professional												
		field; find scientific												
		achievements and innovative												
		technologies in the field of												
		logistics, applying scientific												
		methods. The content of the												
		discipline: The main objects of												
		research in logistics. Basic												
		paradigms and concepts of												
		logistics. Logistics as a science												
		and practice of managing the												
		movement of material and												
		related information flows in												
		space and time. General												
		scientific methods and												
		approaches used in logistics.												
		System analysis. Operations												
		research. Methodological												
		principles of logistics:												
		consistency; global optimization												
		or emergence; focus on total												
		costs; logistics coordination and												
		integration; hierarchies.												
64	Organization	The aim of the discipline is to												
.		study the theoretical foundations												
	traffic control	and methods of organising the	5		V	V					V		V	
		delivery of goods and passengers												
		actively of goods and passengers		<u> </u>	<u> </u>						l			

hu transport the accomination of	\neg
by transport, the organisation of	
transport traffic and to acquire	
practical skills of planning and	
managing the transport process.	
After completing the course the	
student should know the basic	
principles of management of the	
operational work of different	
types of transport, taking into	
account the application of	
information and automated	
control systems; know the	
operational indicators of the use	
of transport units; be able to	
determine the capacity and	
carrying capacity of transport	
networks and facilities. Content	
of the discipline: Tasks of	
transportation organisation and	
traffic management in transport.	
Technology of railway stations;	
organization of work of railway	
and transport hubs; management	
of car traffic on the railway	
network. Indicators of the use of	
rolling stock. The role of	
industrial transport in a single	
transport process. Organization	
of work of transport at industrial	
enterprises. Methods for	
studying the characteristics of	
road traffic. Study of traffic	
parameters. Methods for	
assessing the effectiveness of the	
organization of traffic.	
Organization of road transport.	
Freight and passenger traffic,	
Treight and passenger traine,	

		methods of their study.										
		Quantitative and qualitative										
		indicators of transport operation.										
65	Translation of goods	Purpose: to study the theoretical										
		basis of the Cargo Transport										
		Regulations (CTR) for all types										
		of cargo vehicles. Upon										
		completion of the course the										
		learner should know: BCPs on										
		railway and road transport; be										
		able to choose the optimal route										
		and type of vehicle for cargo										
		delivery; organise the correct	5	V		V	V		V			
		placement and securing of cargo										
		according to BCPs. Content:										
		BCP on railway, road, air and sea										
		transport in the Republican and										
		international communications;										
		Wagon. Technical										
		characteristics. Pricing and										
		calculation of rates. Incaterms										
	0	2020.										
00		The role of transport and organization of transportation in										
	economics of transport	•										
	management	economics of rolling stock,										
	management	production resources and the	5			v						
		efficiency of their use. Economic	3			•						
		indicators of the transport										
		company and their analysis.										
		Analysis of transportation costs.										
67	Safety of transport and	The purpose of the discipline is										
	logistics processes	for students to acquire basic										
		theoretical knowledge and	5							v	v	
		practical skills in the field of	5							•	٧	
		security at transport and logistics										
		facilities.										

	Content: Basic terms and definitions in the theory and practice of security. Legal and organizational bases for ensuring transport security. Safety indicators. Principles and conditions of trouble-free operation of the transport and logistics complex. Types and causes of failures of technical devices that ensure the safety of transport and logistics processes. Traffic safety management system. Risk management in the transport and logistics complex.									
68	Formation of a safety culture. The aim of the discipline is to acquire skills in organising foreign trade operations and contracting techniques, managing the foreign trade activities of an enterprise and organising international transport. After completing the									
	course the student will know the legislative and legal documents of foreign economic activity; forms and methods of entering the foreign market; know the accounting techniques to determine the economic efficiency and expediency of foreign economic activity; be able to apply the legal framework of foreign economic activity; apply the rules of	5	V	V		V				

		the dissipline includes:									
		the discipline includes:									
		Transport in the field of foreign									
		trade. Material and technical									
		base of transport. Transport									
		support in the implementation of									
		foreign economic activity. The									
		main types of documents on									
		various modes of transport.									
		Transport work in the system of									
		the foreign economic complex.									
		Stages of transport support of									
		foreign economic relations. The									
		process of organizing the									
		delivery of goods; INCOTERMS									
		rule.									
69	Fundamentals of	The aim of the course is to									
	research work	prepare students for research									
		work. After completing the									
		course the student should know									
		the basic concepts of scientific									
		research, ideas about the									
		methods of scientific cognition,									
		search for knowledge, search for									
		scientific information; be able to									
		conduct a search and review of									
		scientific literature; possess the									
		skills of searching and working	5			V					
		with various information									
		sources; presentation of research									
		results. Content of the discipline:									
		Theoretical and methodological									
		foundations scientific research.									
		The concept of organization of									
		scientific research, planning and									
		effectiveness. Typical stages of									
		research work. Forms of									
		organization and management of									

		science. Classification of scientific institutions. The system of organization of research work at the university, its main goals and objectives. Types and forms of research work. Independent work of a student in research. Ethical norms of scientific work. Preparation, organization and planning of scientific research. Research methods and their characteristics. Definition of stages and tasks in scientific work, generalization of research results. Formulation of scientific work.									
70		Features of the functioning of transport as a branch of material									
	delivery systems	production. Transport process									
		and its meters. Optimization of transport elements process.									
		Technology of trucking systems									
		of cargo delivery. Transport capabilities of transport. The									
		basic principles of the									
		technology of the transportation	5					v			
		process of goods. The	5					v			
		technological process of transportation of goods. Models									
		for describing the functioning of									
		cargo delivery systems by road.									
		Advanced methods of organizing									
		transportation, centralized									
		transportation. Measurement of									
		the effectiveness of motor freight delivery systems. Performance									
		derivery systems. I enformance									

		indicators. Evaluation of the effectiveness of freight delivery systems.										
71		Course content: Basic concepts: ERP-system, functional module, business planning and enterprise resource management, system life cycle, organizational plan, interaction of functional modules. Architecture and functionality of ERP systems. Methodology and stages of ERP systems implementation. SAP R / 3 system. Case studies of complex business processes with SAP R / 3 Enterprise	4	v						V		
72	Logistics systems design	The course "Design of Logistics Systems" reveals the content and specifics of the design of logistics systems. The course covers issues related to the specifics of logistics systems as an object of design, the process of designing a logistics system, and activities related to managing the design of a logistics system. The discipline will be studied. Methodology and basic principles of the design of logistics systems. System approach and system analysis in design. Modeling of objects and subjects of management in the logistics system. Quality criteria for the performance of logistics systems. Methods and algorithms for the design of	5			•			V			

		logistics systems at the macro and micro level. Automation of logistics systems design. Formation of the organizational structure of the logistics system. Optimization of design solutions. Evaluation of the effectiveness and efficiency of logistics systems.													
73	Risk management in logistics	The content of the discipline: Risk as an economic category, its essence. The concept of risk management and its role in a modern enterprise. Risk management functions. General principles of risk classification. The main risk groups in logistics. Identification and forecasting of risks. The concept of risk identification. The method of expert assessments. Risk management methods.	5										v		
74	Supply Chain Logistics	logistics. Vendor selection methods. Analysis and calculation of transport and logistics costs in the supply and identification of opportunities for their reduction while maintaining the reliability of the functioning of the logistics system and supply chains. Optimization of costs associated with logistics supply.	4		v	v		V				v			
75	The office of freight and commercial work	The purpose of the discipline is to master the technology of cargo	5				v		v	v		V		V	

and communical month of all	
and commercial work at all	
stages of the transportation	
process for the delivery of	
various types of goods. After	
completing the course the	
student should know the	
technical means of freight and	
commercial work, advanced	
ways of organising	
transportation in transport	
logistics systems, the basics of	
transport law; know the	
principles of tariff construction;	
be able to organise freight and	
commercial work on the basis of	
advanced innovative	
technologies, information	
systems of management of	
loading and unloading work.	
Content of the course: Discipline	
includes a set of questions	
associated with the	
transportation process, mainly	
with its start and end operations -	
loading and unloading; with the	
organisation of progressive	
modes of transport - package,	
container and routing; with the	
use of cars and time and capacity	
of the containers, with the	
interaction with other transport	
modes, the development of and	
compliance with the rules of	
conditions, ensuring their safety,	
traffic planning, mechanization	
of cargo handling and others.	

		The discipline will be studied. Fundamentals of management of cargo and commercial work. The concentration and means of cargo and commercial work. Technology implementation of industrial and commercial operations. Freight rates. The general principles of the organization of the access roads. Technology haulage of bulk transport. Freight on special conditions. Management of freight and commercial operations of the carriage of goods in mixed messages. The technology of industrial and commercial operations in international messages. Responsible for transport. Ways to improve cargo and commercial work on the railway									
7.6	D :	and road transport.									
76	Project management in logistics	The purpose of the discipline is to study the tools and methods of project management in the field of logistics. After completing the course, the student should know the project management standards existing in world practice; tools and methods of project management; be able to develop a hierarchical work structure and build a Gantt chart; determine the critical path and risks of the project, develop a cause-and-effect diagram;	5					V			

		master the skills of working in the MS Project environment. The content of the discipline: Basic concepts and definitions of project management. Modern standards in the field of project management, their characteristics and application in the field of logistics; Project management tools and techniques. Development of the charter and content of the									
77	Emotional intelligence	project. Hierarchical structure of work and Gantt chart. The critical path method. Quality and risk management of projects in logistics. Basic skills in MS Project.									
	Emotional intelligence	The purpose of studying the discipline "Emotional Intelligence" is the formation of students' theoretical and practical knowledge, skills and abilities of emotional competence in the management of value chains, as well as the formation of emotionally competent behavior necessary for the professional activity of a high-level specialist based on the consideration of the emotional factor in the business processes of modern companies. After completing the course, the student should know: - basic theoretical concepts of emotional intelligence; - principles of managing one's own emotions	5					V			

		and those of the team and group;											
		be able to: -Manage emotions in											
		business interactions and apply											
		innovative methods of team and											
		unit management based on											
		emotional intelligence; Content											
		of the discipline: The concept											
		and structure of "emotional											
		intelligence". Modern methods											
		of assessing emotional											
		intelligence. Modern											
		technologies of training and											
		development of emotional											
		intelligence of staff. Emotional											
		competence of the manager.											
		Emotional intelligence and											
		organizational culture. The											
		concept of group coefficient of											
		emotional intelligence. Systemic											
		approach to the introduction of											
		emotional intelligence											
78	WMS (Warehouse	The aim of the discipline is to											
	management system)	acquire skills in the application											
		of warehouse management											
		information systems. As a result											
		of studying the discipline the											
		student should know the											
		principles of organization of											
		warehousing, technology in the											
		warehouse; be able to organize	6	V					V				
		the movement of material flow in											
		the warehouse; acquire skills of											
		working with warehouse											
		management information											
		system. Course content: The											
		basics of logistics warehousing											
		and its principles. Models and											
		and its principles. Models and		l	<u> </u>	l	<u> </u>						

	methods of building a warehouse								
	network of an enterprise.								
	Methods of planning material								
	flows. Functioning and								
	management of the storage								
	system. Automated Warehouse								1
	Management System (WMS).								1
	Modern trends of technical								
	equipment of the warehouse.								
	Methods for modeling business								
	processes in warehousing								1
	logistics. Paperless and wireless								
	technology in stock.								j l

5. Curriculum of the educational program

NJSC "KAZAKH NATIONAL RESEARCH TECHNICAL UNIVERSITY named after K.I. SATPAEV"





CURRICULUM
of Educational Program on enrollment for 2024-2025 academic year

Educational program 6B11301 - "Transport services" Group of educational programs B095 - "Transport services"

	Form of study: full-time	Duration of			classroo	SIS	Form of				Bachelor in		nurses and	semester	
	Name of disciplines	Cycle	Total amount	Total	classroo	SIS (includin	Form of control	1 cou			e training bo ourse		ourses and		ourse
Discipline code			in credits	nours	volume	g TSIS) in hours	Common	1 semester	2 semester	3 semester	4 semester	5	6	7 semester	8
			VOLEO	P CEN	lek/lab/p	DUCAT	ON DIE	CIDI INE	CACEDY						
		(YCLEO					CIPLINE	S (GED)						
LNG 108	Foreign language	GED, RC	5	150	0/0/3	105	E E	5		V. 172					
LNG 108	Foreign language	GED, RC	4	150	0/0/3	105	E		5						
LNG 104	Kazakh (russian) language	OED, RC	5	150	0/0/3	105	E	5	-	-					
LNG 104	Kazakh (russian) language	GED, RC	5	150	0/0/3	105	E		5						7
1190-104	Caraca (Tracara) and Dage	SHILL, BOO.	- 2		. Modul	-		-7	0.900						-
KFK IOI-	Physical Culture							2	-	2	-				
104	Tilyakar Canare	GED, RC	8	240	(I/O/N	120	Differedit		2		2		12		
	1			M-3. N	todule of	informa	tion tech	inology		-		_	-		
CSE 677	Information and communication technologies	GID, RC	3	150	2/1/0	105	E				. 5				
LOGIII	Data Analysis in Excel				2/1/0										
LOG129	Multimodal transport technology				2/0/1										
	Fundamentals of Artificial Intelligence	BD, CCH	.5	150		105	Ε .						.5		-
CSE831	Turker of the second				1/0/2										
Lorens	Information systems and technologies in	Danie and Danie			200										
LOG507	logistics	BD, CCH	- 6	180	2/1/1	135	E							6	
LOG522	Intelligent transport systems				2/1/1										
LOG509	WMS (Warehouse management system)				2/1/1										
		PD, CCH	- 6	130		105	Е						-		- 6
LOGSON	Innovative directions in the organization	112,550		150	2/1/1	1.00	_								
LUGSUS	of freight transportation				Section						4				
				M-4. Se	cio-culti	aral deve	lopment	module							,
HUM137	History of Kazakhstan	GED, RC	- 5	150	1/0/2	105	SE		5						
0.000000	Philosophy	2000000	100				-								
HUM132	i intesspie	GED, RC	-5	150	1/0/2	105	E				.5				
HUM120	Module of socio-political knowledge		3	90	1/0/1	60	Е				3				
COMPANY.	(sociology, political science)	GED, RC		- 20		5000	- 30		-	-	-		-	_	-
100M134	Module of socio-political knowledge (cultural studies, psychology)		5	150	2/0/1	150	E			5		-			
		M-5, M	odule on	the basi	s of anti-	corrupti	on cultur	re, ecology	and life	safety					
18JM136	Fundamentals of anti-corruption culture	10=5757-0-1	10,1200mm, UCH	acceptance of			22115-2721		7.5	-					-
	and law														
MNG489	Fundamentals of economics and														
1000000	Entrepreneurship Fundamentals of scientific research	GED. CCH	- 5	150	2/0/1	150	Е			5					
L0G524	methods														
CHE 656	Ecology and life safety														
MNG564	Basics of Financial Literacy									VI					
				CYCLI	OF BA	SIC DIS	CIPLIN	ES (BD)							
			M-6.	Module	of physi										
MAT423.	Mathematics	BD, UC	5			ical and	nathema	tical train	ing						
			-	150	1/0/2	105	nathems E		ing						
31.530	Theory of Probability and Mathematical	BD. UC		150	1/0/2			tical train	ing 5						
MAT177	Statistics	BD, UC	5			105	Е	tical train	-						
35.5555	Statistics Economic-mathematical models and	BD, UC BD, UC				105	Е	tical train	-	5					
MAT177 LOG503	Statistics Economic-mathematical models and methods in logistics	-2-22-0	3	150	1/0/2	105	E	tical train	-	5					
MAT177	Statistics Economic-mathematical models and methods in logistics Production and logistics modeling	BD, UC	5	150 150	1/0/2	105	E E	tical train	-	5					
MAT177 LOG503	Statistics Economic-mathematical models and methods in logistics Production and logistics modeling Logistics: information technology and	-2-22-0	3	150	1/0/2	105	E	tical train	-	5	5				
MAT177 LOG503 LOG124 MNG121	Statistics Economic-mathematical models and methods in logistics modeling Production and logistics modeling Logistics: information technology and systems.	BD, UC	5	150 150	1/0/2	105	E E	tical train	-	5	5				
MAT177 LOG503 LOG124	Statistics Economic-mathematical models and methods in logistics modeling Production and logistics modeling Logistics: information technology and systems.	BD, UC	5	150 150	1/0/2	105 105 105 105	E E E	stical train	-	5	- 5				
MAT177 LOG503 LOG124 MNG121 LOG108	Statistics Economic-mathematical models and methods in logistics Production and logistics modeling Logistics: information technology and systems Mathematical statistics on transport	BD, UC BD, CCH	5 5	150 150 150 M	1/0/2 1/1/1 2/1/0	105 105 105 105	E E E	s s	-	5	- 5				
MAT177 LOG503 LOG124 MNG121 LOG108	Statistics Economic-mathematical models and methods in logistics Production and logistics modeling Logistics: information technology and systems Mathematical statistics on transport Introduction to speciality	BD, UC BD, CCH BD, UC	5 5	150 150 150 M 150	1/0/2 1/1/1 2/1/0 2/0/1	105 105 105 105 ule of ba	E E E	stical train	-	5	- 5				
MAT177 LOG503 LOG124 MNG121 LOG108 LOG100 LOG523	Statistics Economic-mathematical models and methods in logistics Production and logistics modeling Logistics: information technology and systems Mathematical statistics on transport Introduction to specialty Transport infrastructure	BD, UC BD, UC BD, UC	5 5 5 5	150 150 150 M 150 150	1/0/2 1/1/1 2/1/0 2/1/0 2/0/1 2/0/1	105 105 105 105 105 105 105	E E E E E E E E E E E E E E E E E E E	s s	-		- 5		4		
MAT177 LOG503 LOG124 MNG121 LOG108 LOG500 LOG523 LOG501	Statistics Economic-mathematical models and methods in logistics Production and logistics modeling Logistics: information technology and systems Mathematical statistics on transport Introduction to specialty Transport infrastructure Global Logistics Systems	BD, UC BD, UC BD, UC BD, UC	5 5 5 5	150 150 150 M 150 150 150	1/0/2 1/1/1 2/1/0 2/1/0 1-7. Mod 2/0/1 2/0/1 2/0/1	105 105 105 105 105 105 105 75	E E E E Sic traini E E E	s s	5		5		4		
MAT177 LOG503 LOG124 MNG121 LOG108 LOG503 LOG503 LOG501 LOG502	Statistics Economic-mathematical models and methods in logistics Production and logistics modeling Logistics: information technology and systems Mathematical statistics on transport Introduction to specialty Transport infrastructure Global Logistics Systems Transport modes interactions	BD, UC BD, UC BD, UC BD, UC BD, UC BD, UC	5 5 5 4 4	150 150 150 M 150 150 150 120	1/0/2 1/1/1 2/1/0 1-7. Modi 2/0/1 2/0/1 2/0/1 2/0/1 2/0/1	105 105 105 105 105 105 105 75	E E E E E E E E E E E E E E E E E E E	s s	-		5		4		
MAT177 LOG503 LOG124 MNG121 LOG108 LOG523 LOG501 LOG502 LOG502 LOG502	Statistics Economic-mathematical models and methods in logistics modeling Production and logistics modeling Logistics: information technology and systems Mathematical statistics on transport Introduction to specialty Transport infrastructure Global Logistics Systems Transport modes interactions Transport management and marketing	BD, UC BD, UC BD, UC BD, UC BD, UC BD, UC	5 5 5 5	150 150 150 M 150 150 150	1/0/2 1/1/1 2/1/0 2/1/0 1-7. Mod 2/0/1 2/0/1 2/0/1	105 105 105 105 105 105 105 75	E E E E E E E E E E E E	stical train	5		5		4	5	
MAT177 LOG503 LOG124 MNG121 LOG108 LOG503 LOG503 LOG501 LOG502	Statistics Economic-mathematical models and methods in logistics modeling Logistics: information technology and systems Mathematical statistics on transport Introduction to specialty Transport infrastructure Global Logistics Systems Transport management and marketing Economy of transport	BD, UC BD, UC BD, UC BD, UC BD, UC BD, UC	5 5 5 5 4 4 5	150 150 150 M 150 150 120 120 150	1/0/2 1/1/1 2/1/0 1-7. Modi 2/0/1 2/0/1 2/0/1 2/0/1 2/0/1 2/0/1	105 105 105 105 105 105 105 75 75 105	E E E E E E E E E E E E	stical train	5		5		4	5	
MAT177 LOG503 LOG124 MNG121 LOG108 LOG503 LOG503 LOG502 LOG502 LOG502 MNG109	Statistics Economic-mathematical models and methods in logistics Production and logistics modeling Logistics: information technology and systems Mathematical statistics on transport Introduction to specially Transport infrastructure Global Logistics Systems Transport modes interactions Transport anangement and marketing Economy of transport Cargo handling	BD, UC	5 5 5 5 4 4 5 5	150 150 150 M 150 150 120 120 150 150	1/0/2 1/1/1 2/1/0 1-7. Modi 2/0/1 2/0/1 2/0/1 2/0/1 2/0/1 2/0/1	105 105 105 105 105 105 105 105 105 105	E E E E E E E E E E E	stical train	4				4	5	
MAT177 LOG503 LOG124 MNG121 LOG100 LOG523 LOG501 LOG501 LOG5043 MNG109 LOG122	Statistics Economic-mathematical models and methods in logistics Production and logistics modeling Logistics: information technology and systems Mathematical statistics on transport Introduction to specialty Transport infrastructure Global Logistics Systems Transport modes interactions Transport modes interactions Transport management and marketing Economy of transport Cargo handling Freigly transport systems	BD, UC	5 5 5 5 4 4 5 5 5	150 150 150 MM 150 150 120 120 150 150 120	1/0/2 1/1/1 2/1/0 2/0/1 2/0/1 2/0/1 2/0/1 2/0/1 2/0/1 2/0/1 2/0/1 2/0/1 2/0/1	105 105 105 105 105 105 105 105 75 75 105 105 105	E E E E E E E E E E E E E E E E E	stical train	4	5	5		4	5	
MAT177 LOG503 LOG124 MNG121 LOG100 LOG523 LOG501 LOG502 LOG143 MNG109 LOG101	Statistics Economic-mathematical models and methods in logistics Production and logistics modeling Logistics: information technology and systems Mathematical statistics on transport Introduction to specially Transport infrastructure Global Logistics Systems Transport modes interactions Transport anangement and marketing Economy of transport Cango handling Freight transport systems Transport systems Transport logistics Commercial logistics Commercial logistics	BD, UC	5 5 5 5 4 4 5 5	150 150 150 150 150 150 120 120 150 150 150 150	1/0/2 1/1/1 2/1/0 2/1/0 2/0/1 2/0/1 2/0/1 2/0/1 2/0/1 2/0/1 2/0/1 2/0/1 2/0/1 2/0/1	105 105 105 105 105 105 105 75 105 105 105 105	E E E E E E E E E E E E E E E E E E E	stical train	4	5		5	4	5	
MAT177 LOG503 LOG124 MNG121 LOG108 LOG503 LOG502 LOG502 LOG501 LOG502 LOG143 MNG119 LOG122 LOG500 LOG500 LOG500 LOG500 LOG500 LOG500 LOG500 LOG500 LOG500	Statistics Economic-mathematical models and methods in logistics modeling Production and logistics modeling Logistics: information technology and systems Mathematical statistics on transport Introduction to specialty Transport infrastructure Global Logistics Systems Transport modes interactions Transport anangement and marketing Economy of transport Cargo handling Freigly transport systems Transport logistics Commercial logistics Commercial logistics	BD, UC BD, UC	5 5 5 5 4 4 5 5 6	150 150 150 150 150 120 120 150 150 150 150 150 180	1/0/2 1/1/1 2/1/0 2/1/0 2/0/1 2/0/1 2/0/1 2/0/1 2/0/1 2/0/1 2/0/1 2/0/1 2/0/1 2/0/1 2/0/1 2/0/1 2/0/1 2/0/1 2/0/1 2/0/1 2/0/1	105 105 105 105 105 105 105 105 105 105	E E E E E E E E E E E E E E E E E E E	stical train	4	5		5	4	5	
MAT177 LOG503 LOG124 MNG121 LOG108 LOG502 LOG502 LOG502 LOG502 LOG122 LOG601 LOG500 LOG600 LOG600 LOG601 LOG600 LOG6127 LOG6112	Statistics Economic-mathematical models and methods in logistics Production and logistics modeling Logistics: information technology and systems Mathematical statistics on transport Introduction to specialty Transport infrastructure Global Logistics Systems Transport modes interactions Transport anangement and marketing Economy of transport Cargo handling Freight transport systems Transport logistics Commercial logistics Methods of decision making in logistics	BD, UC BD, UC	5 5 5 5 4 4 5 5 6	150 150 150 150 150 120 120 150 150 150 150 150 180	1/0/2 1/1/1 2/1/0 2/0/1 2/0/1 2/0/1 2/0/1 2/0/1 2/0/1 2/0/1 2/0/1 2/0/1 2/0/1 2/0/1 2/0/1 2/0/1	105 105 105 105 105 105 105 105 105 105	E E E E E E E E E E E E E E E E E E E	stical train	4	5		5	4	5	
MAT177 LOG503 LOG124 MNG121 LOG108 LOG503 LOG502 LOG502 LOG501 LOG502 LOG143 MNG119 LOG122 LOG500 LOG500 LOG500 LOG500 LOG500 LOG500 LOG500 LOG500 LOG500	Statistics Economic-mathematical models and methods in logistics Production and logistics modeling Logistics: information technology and systems Mathematical statistics on transport Introduction to specially Transport infrastructure Global Logistics Systems Transport modes interactions Transport amangement and marketing Economy of transport Cargo handling Freight transport systems Transport of districts Transport of districts Commercial logistics Methods of decision making in logistics Contract logistics	BD, UC	5 5 5 4 4 5 5 6 5	150 150 150 150 150 120 120 150 150 150 150 150 180	1/0/2 1/1/1 2/1/0 2/1/0 2/0/1 2/0/1 2/0/1 2/0/1 2/0/1 2/0/1 2/0/1 2/0/1 2/0/1 2/0/1 2/0/1 2/0/1 2/0/1 2/0/1 2/0/1 2/0/1 2/0/1	105 105 105 105 105 105 105 105 105 105	E E E E E E E E E E E E E E E E E E E	stical train	4	5		5	4	5	
MAT177 LOG503 LOG124 MNG121 LOG108 LOG502 LOG502 LOG502 LOG502 LOG122 LOG601 LOG500 LOG600 LOG600 LOG601 LOG600 LOG6127 LOG6112	Statistics Economic-mathematical models and methods in logistics Production and logistics modeling Logistics: information technology and systems Mathematical statistics on transport Introduction to specialty Transport infrastructure Global Logistics Systems Transport modes interactions Transport management and marketing Economy of transport. Cange handling Freight transport systems Transport logistics Commercial logistics Methods of decision making in logistics Commercial logistics	BD, UC BD, UC	5 5 5 5 4 4 5 5 6	150 150 150 150 150 120 120 150 120 120 150 150 150	1/0/2 1/1/1 2/1/0 2/0/1 2/0/1 2/0/1 2/0/1 2/0/1 2/0/1 2/0/1 2/0/1 2/0/1 2/0/1 2/0/1 2/0/1 2/0/1	105 105 105 105 105 105 105 75 105 105 105 105 105	E E E E E E E E E E E E E E E E E E E	stical train	4	5		5	4	5	

	Military training Total based on UNIVERSITY:	ATT	0												
- T		in the late.	0												
				M-10	. Additi	onal train	ning mo	dule							
	project	FA	8												8
A109	Writing and defense of the thesis /		- T	N1-5	. Final c	ertificat	on mod	ule							
-41.785	resource of the series of the	PD, UC	3	25	Ct 1								3		1
	Production practice I	PD, UC	2								2				
	New Research Directions in Logistics			1,111	4.444	4907	- 6-						- 5		5
	Fundamentals of research work	PD. CCH	3	150	2/0/1	105	E					-			
OG134	Logistics systems design														-
06118	Fundamentals of the design of motor freight delivery systems	PD, CCH	5	150	2/1/0	105	Е			7-2-1				3	
	Project Management in Logistics									-	-				
ING141	Controlling of logistics systems				2/0/1		250								
	Teamwork and business communications	PD, CCH	5	150	1/0/2	105	Е								-
	Outsourcing in logistics Emotional Intelligence				1/0/2										
OG136	Logistics of freight forwarding services	FUCCH	5	150	2/0/1	105	E							5	
RA187	international transportation	PD. CCH		150	2/0/1	222	20								
	Risk management in legistics The basics of FEA and regulations for			-			-								
OG112	Purchasing logistics	PD, CCH	5	150	2/0/1	105	E								
	Customs logistics	8											- 5		-
.0G109	Organization of transportation and economies of transport management	. 15, 4,4,11		120	2/9/1	105	E								
.OG138	processes	PD. CCH	5	150	2/0/1	105	-					.5			
.OG513	systems) Safety of transport and logistics				2/0/1										
LOG512	Transportation in supply chain logistics Enterprise resource planning (ERP	PD, UC	4	120	2/0/1	75	E						4	7	
06511	Containerization of freight transport				2/0/1										
LOG132	Translation of goods	PD, UC	5	150	2/0/1	105	E					5			-
.OG510	control	PD, UC	5	150	2/1/0	105	E					5			
	Production logistics Organization transportations and traffic	PD. LC	5	150	2/0/1	105	E							5	
UNG137	Supply Chain Management	PD, UC	- 6	180	2/0/2	135	E					_		ń	-
LOG506	systems	PD, UC	4.	120	2/0/1	75	E								1
MNG453	Warehouse logistics Inventory management in logistics	PD, UC	4	120	27071	75	E						4		
TRA173	work	PD, UC	5	150	2/0/1	105	E					5			
	The office of freight and commercial			M-8.	Module	of profes	ssional a	ctivity		-					200
				CYCLE	OF PRO	FILE D	ISCIPL	NES (PD)		-		-	-	-
AAP149	Educational practice	BD, UC	3	90					3			-		+	+
MNG563	Fundamentals of sustainable development and ESG projects in Kazakhstan				2/0/1										
F00118					2/1/0				-				1		_
MNG171	limitating games in logistics	BD, CCH	5	150	1/0/2	105	E				1		5	_	+
LOG (40)	Logistics technologies of industrial transport				2/0/1	1							1		T
LOG105	Transport systems			1	2/0/1	1	1		_		-	_		-	-
MNG170	The state of the s				1/0/2					-		-	-	-	-
TRA453	and the second second second				2/0/1	1	_		+	1	_	- '	-	-	-
L0G121	Basics of manufacturing processes	BD. CCH	- 5	150	2/0/1	105	E	-	-	-	-	5			
LOG114	Simulation of logistics systems				2/1/0	+	-	-	-	-	-		-	-	1

	Number of credits for the entire peri	od of stud	ly	0.	
	Cycles of disciplines		Cre	dits	
Cycle code		required component (RC)	university component (UC)	choice (CCH)	Total
GED	Cycle of general education disciplines	51	- 2.2	5	56
BD	Cycle of basic disciplines		66	31	
PD	Cycle of profile disciplines		43	36	176
	Total for theoretical training:				232
FA	Final attestation	- 8			- 8
	TOTAL:	8	.0	0	240

Decision of the Academic Council of Kazntu named after K.Satpayev.	Protocol No 12 22 29 202 4
Decision of the Educational and Methodological Council of Kazatu nar	med after K.Satpayev, Protocol Nt 6 "13, 04 202 W
Decision of the Academic Council of the School of transport engineerin	ng and logistics named after M. TynyshpayevProtocol No 4or "19" 03 20 24
Vice-Rector for Academic Affairs	R.K. Uskenbayeva
Head of School of transport engineering and logistics named after M. Tynyshpayey	S.S. Abdullaev
Head of educational program of School of transport engineering and logistics named after M. Tynyshpavev	G.S. Mukhanova
Specialty Council representative from employers	Med S.M. Medetbekuv