

Institute of Project Management Department of Logistics

EDUCATIONAL PROGRAM

6B11310 Digital logistics

Code and name of educational program

Code and classification of the field of education: 6B11 service

Code and classification of training directions: 6B113 Transportation services

Group of educational programs: B095 Transportation services

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

Study period:4

Amount of credits:240

Almaty 2022

Educational program «6B11310 Digital logistics»

code and name of educational program

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

Protikol №13 «28» 04 2022.

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

Protocol №7 «26» 04 2022.

Educational program 6B11310 Digital logistics code and name of educational program was developed by Academic committee based on direction «6B113 Transportation services »

Full name	Academic degree/ academic title	Position	Workplace	Signature
Chairperson of Ac	ademic Committee:			
Mukhanova Gulmira Samudinovna	Candidate of Technical Sciences, Associate Professor	Department	"Kazakh National Research Technical University named after K.I.Satpayev", mobile phone: +77019937718	An-
Teaching staff:				
Bekzhanova Saule Ertayevna	Doctor of Technical Sciences, Professor	Professor	"Kazakh National Research Technical University named after K.I.Satpayev", mobile phone: +77017994770	chest
Saltanat Bolatovna	Candidate of Economic Sciences	Assistant Professor	"Kazakh National Research Technical University named after K.I.Satpayev", mobile phone: +77057696077	1
Tymbaeva Zhazira Muratbekovna	Candidate of Economic Sciences	Associate Professor	"Kazakh National Research Technical University named after K.I.Satpayev", mobile phone: +77017867603	1/1//
Tyshkanbayeva Mansia Bukarina	Candidate of Physical and Mathematical Sciences, Associate Professor	Professor	"Kazakh National Research Technical University named after K.I.Satpayev", mobile phone: +77472870472	1
Employers:				_
Korolev Vasily Valentinovich		Director	ТОО «ТрансАл»,	11 5
Tulebaev Madiyar		Director	TOO «ZhebeLogistics»	(Peed
Medetbekov Serik Muratbekovich		Associate Director	TOO «Туркестан INVEST»	H. Cou
Students			"Kazakh Nationa	
Kozhataev Sauran		2nd year doctoral	"Kazakh Nationa Research Technica	have at 1

	student	University named after K.I.Satpayev", mobile phone: +77788929235
Mailybayeva Aina	4th year student	"Kazakh National Research Technical University named after K.I.Satpayev", Mobile phone: +77013821226
Narynbay Rauan Zhandauletuly	Master's student 2nd year	"Kazakh National Research Technical University named after K.I.Satpayev", mobile phone: +77052010290

F KazNRTU 703-05 Educational program

Table of contents

	List of abbreviations and designations	
1.	Description of educational program	6
2.	Purpose and objectives of educational program	6
3.	Requirements for the evaluation of educational program learning	6
	outcomes	
4.	Passport of educational program	
4.1.	General information	7
4.2.	Relationship between the achievability of the formed learning	10
	outcomes according to educational program and academic	
	disciplines	
5.	Учебный план образовательной программы Curriculum of	74
	educational program	

List of abbreviations and designations

ECTS European Credit Transfer and Accumulation System

SU Satbayev university

TS Teaching staff

EP Educational program

RO Registrar's Office

WC of the EP Working curriculum of the EP

1. Description of educational program

The educational program "Digital Logistics" is a first-level qualification of three levels of the higher education system. At the expense of the qualification module and final qualification work of bachelors of the educational program.

2. Purpose and objectives of educational program

Purpose of EP: According to the Atlas of New Professions and Competences, to train skilled professionals in demand in the labour market who are able to identify and take decisions in logistics and enterprise supply chain management through the use of modern digital technologies and information systems.

Tasks of EP:

- Task 1: Preparation of a graduate for the development of spiritual values, moral and ethical norms of a person as a member of society, the implementation of the legal and legislative system of the Republic of Kazakhstan with a high level of professional culture, civic position;
- Task 2: Preparing graduates for continuous self-improvement and self-development, mastering new knowledge, skills and abilities in innovative areas in the field of logistics and transportation organization;
- Task 3: Preparation of a graduate with acquired competencies for solving problems in the field of transport and material flows management based on the use of digital technologies;
- Task 4: Preparation of a graduate, based on the diversity and dynamism of the catalog of elective disciplines of the curriculum, with a predominance of practical skills in competencies, capable of performing professional functions within one or more types of activities based on the final results of training, taking into account the specifics of these activities, market requirements for organizational and managerial, professional competencies;
- Task 5: To prepare a graduate as a competitive specialist in the field of logistics, including on the basis of increasing the international aspect in educational and scientific programs, meeting the requirements of Industry 4.0, and competent in the field of advanced digital logistics technologies and registration of research results.

3. Requirements for evaluating the educational program learning outcomes

4. Passport of educational program

4.1. General information

№	Field name	Comments
1	Code and classification of	6B11 Services
	the field of education	
2	Code and classification of	6B113Transportation services
	training directions	
3	Educational program group	B095Transportation services
4	Educational program name	6B11310 Digital logistics
5	<u> </u>	The educational program "Digital Logistics" is a first-level
	educational program	qualification of three levels of the higher education system.
		At the expense of the qualification module and final
		qualification work of bachelors of the educational program.
6	Purpose of EP	According to the Atlas of New Professions and
		Competences, to train skilled professionals in demand in the
		labour market who are able to identify and take decisions in
		logistics and enterprise supply chain management through
		the use of modern digital technologies and information
	T. CED	systems.
7	Type of EP	New EP
8	The level based on NQF	6
9	The level based on IQF Distinctive features of EP	6
		No
	List of competencies of	A - knowledge and understanding:
	educational program	A1-laws of functioning and development of different
		cultures, history of culture of Kazakhstan;
		A2- Entrepreneurial principles and laws of market economy functioning;
		A3- know the theoretical foundations relating to the impact
		of natural and man-made hazards on the environment and
		the human body
		A4 - legal responsibility for corruption offences;
		A5 - current legislation in the Republic of Kazakhstan
		concerning anti-corruption.
		B - application of knowledge and understanding
		B1 - know how to minimise negative workplace factors,
		ensure environmental safety and improve working
		conditions;
		B2 - methods of planning and achieving a successful
		professional career;
		B3- methods and techniques to apply digital technology, to
		describe logistics business processes, to implement methods
		of data processing, to work in a programming environment;
		B4- the knowledge and competence to efficiently organise
		logistical support for the functional activities of the
		organisation using a logistical approach, applying advanced
		digital technology.
		C- judgement formation
		C- Juagoment formation

		C1- the optimisation of flow processes, including use of
		materials and raw materials, operation of equipment and
		machinery, application of up-to-date computer software,
		carrying out of calculations and design of parameters of
		logistical production and transport processes in the industry;
		C2 - in information processing in planning organisational
		and managerial measures to improve the logistics
		management systems of the industry;
		C3 - in modern digital technology implementation and
		control of logistics processes in companies of various forms
		of ownership.
		D - Personal abilities
		D1- Be broad-minded, proactive, adaptable to the changing
		needs of the job market and technology, able to work in a
		team;
1		D2- Have strong motivational and leadership skills;
1		D3- Be able to perform the assigned task effectively,
1		applying flexibility and adaptability to changing
		environment conditions;
		D4- Be able to organise and manage R&D activities in a
		modern environment;
		D5-Capable of interacting effectively with others in a
		professional environment, based on one's own high
12	Lagring outcomes of	ideological values.
12	Learning outcomes of educational program	1. Applies advanced information systems and technologies in professional activities to solve applied problems in the
	educational program	field of cargo transportation by different modes of transport,
		organization of warehouse activities, development of
		intermodal transportation and management of material
		inventories of companies.
		2. Develops optimal cargo transportation routes, simulation
		models of logistic processes in a warehouse, production,
		supply of raw materials and components, distribution of
		finished goods on the basis of mathematical and computer
		modelling methods
		3. Analyses the state of the transport system and networks,
		transport infrastructure facilities, transport and logistics
		processes in production on the basis of economic methods.
		Evaluates the results of the analysis and develops justified
		ways of improving transport and logistics facilities.
		4. Analyses the state of the transport system and networks,
		transport infrastructure facilities, transport and logistics
		processes in production on the basis of economic methods.
		Evaluates the results of the analysis and develops justified
		ways of improving transport and logistics facilities. 5. Makes informed decisions in the management of material.
		5. Makes informed decisions in the management of material flows in the enterprise supply chain using logistics
		principles, information systems and technologies.
		6. Makes informed decisions in the management of material
		flows in the enterprise supply chain using logistics
		principles, information systems and technologies.
		7. Applies modern intelligent transport systems to solve
i		

		various logistic tasks in transport system and networks.
		8. Develops schemes for intermodal transportation of goods
		based on knowledge of the rules of international
		transportation and characteristics of modes of transport,
		transportation cost estimates and selection of optimal options
		for the delivery of goods based on knowledge of economics,
		calculation of logistics costs and methods of reducing
		pollution, ecology and safety.
		9. Develops schemes for intermodal transportation of goods
		based on knowledge of the rules of international
		transportation and characteristics of modes of transport,
		transportation cost estimates and selection of optimal options
		for the delivery of goods based on knowledge of economics,
		calculation of logistics costs and methods of reducing
		pollution, ecology and safety.
		10. Develops information subsystems of transportation
		process management and web-applications for the company
		in order to interact operatively with suppliers of material
		resources, logistics providers, consumers of products,
		consumers of transport services and corporate clients.
		11. Performs collection, processing, analysis and planning of
		data on freight, orders and deliveries of transportation services, material inventories and resources based on the use
		of modern information systems, MS Excel, WMS and ERP-
		systems.
		12. Develops data bases of material flows and related
		information and financial flows for supply chain analysis on
		the basis of database management systems and programming
		technology.
		13. Analyse the current state of the supply chain, material
		flow in production and transportation network, to identify
		problematic areas and develop proposals for solving them on
		the basis of the application of business games, simulation
		modelling, management and marketing principles, logistics
		decision making methods, just-in-time, Kanban principles,
		etc.
		14. Makes managerial decisions based on personal qualities,
		leadership principles and entrepreneurial skills, ability to
		work in a team and analyze of the socio-economic, legal,
		cultural, moral and ethical aspects of combating corruption
		in professional activities
		15. Searches for scientific information for research in the
		field of transport services, logistics process management,
		supply chain management on the basis of scientific
12		principles, R&D, decision making methods.
	Education form	Daytime
14	Period of training	240
	Amount of credits	240
	Languages of instruction	kazakh russian bachelor
	Academic degree awarded Developer(s) and authors	Logistics department
10	percloper(s) and admors	Logistics department

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

№	Discipline name	Short description of discipline	Amount of				Ger	erated	l lear	ning	ning outcomes (codes)					
	_ 1502 F 11110 1101110		credits	OH1	ОН2	ОНЗ	ОН4ОН	15ОН	6OH7	ОН8	OH9 OH 10	ОН 11		OH 13	OH 14	OH 15
		Cycle of gene Requ	eral education			ines										
	The basics of anti-corruption culture	The purpose of the basics of anti-Corruption culture course is to develop an anti-corruption behavioural model for students and a social atmosphere of rejection of corruption, active citizenship in the fight against corruption. Students as a result of the course must know the basic concepts and statements of the anti-corruption policy of the Republic of Kazakhstan; the essence of corruption and reasons for its origin; models of anti-corruption; legal liability for corruption offences; current legislation in the Republic of Kazakhstan on anti-corruption. be able to work on improving the level of moral and legal culture; have the skills to analyse situations of conflict of													V	

		interest and make moral choices; improve the anticorruption culture. The discipline studies the essence, causes, causes of sustainable development of corruption from both historical and modern points of view. Examines the prerequisites and impacts for the development of an anticorruption culture. Studies the development of anticorruption on the basis of social, economic, legal, cultural, moral and ethical norms. Studies the problems of the formation of an anticorruption culture based on the relationship with various types of social relations and various manifestations.								
2	Fundamentals of entrepreneurship and leadership	The purpose of the discipline to give students knowledge of the theory and practice of entrepreneurial activity, leadership, skills for their successful application in future professional activities. Upon completion of this course the student will know the basic theories of motivation, leadership, managerial and	5						v	

		entrepreneurial principles, be able to find organizational and	
		managerial solutions, acquire	
		business communication skills	
		and possess the methods of	
		planning and achieving a	
		successful professional career.	
		The discipline studies the	
		basics of entrepreneurship and	
		leadership from the point of	
		view of science and law;	
		studies the features,	
		problematic aspects and	
		prospects of development in	
		the Republic of Kazakhstan.	
		The course studies the theories	
		and practices of	
		entrepreneurship as a system	
		of economic, organizational	
		and legal relations of business	
		structures. The discipline is	
		aimed at revealing the content	
		of entrepreneurial activity,	
		career stages, qualities,	
		competencies and	
		responsibilities of a modern	
		entrepreneur, as well as	
		theoretical and practical	
		business planning and	
		economic expertise of	
		business ideas.	
		The aim of the discipline is to 5	
3	Ecology and life safety	provide students with the	
		theoretical and practical skills	
L	1		

to create a safe, harmless and
environmentally friendly
living environment and to
develop a conscious and
responsible attitude towards
safety and the environment.
After completing the course,
the student should acquire the
following competencies: -
know the theoretical
foundations concerning the
impact of natural and man-
made hazards on the human
body; ; - types and purpose of
basic personal protective
equipment; know how to -
create safe and harmless living
conditions; - be able to apply
personal protective
equipment; - know how to
apply professional knowledge
for minimization of negative
factors of production,
ecological safety and work
conditions improvement.
Course content:
Environmental problems of
modern times. Sources and
characteristics of pollution
course content: Environmental
issues of today. Theoretical
foundations of occupational
health and safety. Basic
concepts, terms and
poneopus, termo una

		1-6:-:4:6:41				ı		1 1			T	
		definitions of the course.										
		Legal and organisational										
		foundations. System of labour										
		safety standards. Industrial										
		sanitation. The impact of										
		harmful substances on the										
		human body and the										
		maximum allowable										
		concentrations thereof in the										
		air of the working area. The										
		discipline provides theoretical										
		and practical skills in the field										
		of ecology and safety, and is										
		also aimed at the formation of										
		students conscious and										
		responsible attitude to safety										
		and ecology, to acquire the										
		ability to identify hazards and										
		willingness to apply										
		professional knowledge to										
		minimize negative production										
		factors, ensure environmental										
		safety and improve working										
		conditions.										
		Cycle	of basic disci	pline	es							
		Univ	ersity compo	nent								
		The aim of the discipline	5						V			
		"Algorithmization and										
		Programming" is to										
1,	Algorithmization and	familiarise students with the										
4	Programming	basic principles of developing										
	6 6	and analysing algorithms and										
		data structures and high-level										
		programming languages and										
		propramming rampuages and		l		 1	 1	<u> </u>		ı		

	$\overline{}$
to acquire the skills of	
designing and programming	
computer applications. As a	
result of studying the	
discipline the student should	
know the methods of	
structural and modular	
programming, basic data	
structures, methods and	
programming technologies: be	
able to develop algorithms and	
implement them in a	
programming language,	
describe data structures,	
implement methods of data	
processing, work in a	
programming environment.	
Students get acquainted with	
the basic structures of	
algorithms: linear, branched,	
cyclic, with the integrated	
development environment for	
applications Visual Studio;	
study the forms of	
representation of algorithms	
using verbal descriptions,	
block diagrams, pseudocode,	
create console applications,	
study basic data types,	
counters, loops, arrays, as well	
as develop a user interface;	
study the principles of	
constructing flow diagrams,	
 positive and the magnitude,	

		DFD data (Data Flow Diagram).							
5	Introduction to specialty	The aim of the discipline is to inform students about the nature 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 related information and financial 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 flow; types of material flows; logistic stages of material flow movement. Logistics systems and supply chains. Functional areas of logistics. Purchasing logistics. Production logistics. Transport logistics. Inventory logistics. Warehousing logistics.	5	v			V		
6	Introduction to Web programming	The aim of the discipline is to study Web technologies and web development languages (HTML, CSS, Java Script,	5				<i>^</i>		

PHP) and development of
dynamic web pages using Java
Script, PHP programming
languages. As a result of the
study the student must know: -
mechanisms of interaction
between web-server and
client language syntax -
control structures - rules for
creating user-defined
functions - methods of work
with arrays and strings - file
system handling methods -
PHP and MySQL interaction.
proficiency: - working in
different software
environments; - work with
database MySQL; know how
to: - apply modern operating
systems and shells when
creating software applications,
- use servicer programs; - use
tools to prepare HTML-pages.
The discipline is aimed at
studying the basics of Web
programming and
development; fundamentals of
functioning, configuration and
administration of software that
implements Internet services;
HTML markup language; the
basics of web page layout
using CSS; the basics of the
JavaScript language and the
 parasempt language and the

		jQuery framework, AngularJS; basic web page design patterns; fundamentals of the PHP server language; technologies for working with MySQL database; the basics of AJAX for real-time requests without page reloads; Introduction to CMS such as Drupal, Joomla and Wordpress.									
7	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; technical and legal basis for the interaction 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	4	V	V	V					

		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 interaction of different modes of transport; calculation of the cost of transportation.			
8	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. Upon completion of this course, the student should know the technical characteristics of different types of cargo, the transport condition of the cargo in the interaction of cargo with the environment	V	V	

		and with each other; be able to develop optimal conditions for transportation and storage of cargo. 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 and storage of goods.							
9	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.	5		V	v	v	V	

		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.							
10	Logistics: information technology and systems	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: 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.	5	v		V			

	Γ	
		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.
		The purpose of mastering the 5 V
		discipline is to form the
		theoretical and practical
		foundations of mathematics
		and its applications. On the
		basis of studying the
		mathematics section, to give
		students the development of
11	Math	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 mathematical analysis
		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.								
12	"Management and marketing in automobile transportation "	The aim of the discipline is to develop students' ability to form marketing strategies to improve the competitiveness of the company in the market of transport services, as well as apply advanced technologies and management tools based on an integrated approach to the various components of management: production, technological, human resources. As a result of the course, the student will know -mainstreams and scientific schools of management, allowing to	5					V	V	

		ı	 	 	<u> </u>	 1 1	
	understand the permissible						
	areas and limits of their						
	application for the successful						
	functioning of the company; -						
	methods of pricing, for						
	formation of competitive						
	prices in market conditions -						
	methods of forming strategies						
	for transport companies to						
	enter foreign markets Will be						
	able to: -identify the strategic						
	objectives of a transport						
	company -identify the						
	competitive advantages of the						
	transport company -execute a						
	flexible marketing strategy						
	based on analysis of internal						
	and external environment -						
	assess the problem situation						
	when making management						
	decisions under uncertainty -						
	develop programmes to						
	motivate and incentivise						
	human resources in a transport						
	company - apply a set of						
	marketing measures in order						
	to improve the image and						
	competitiveness of the						
	transport company. The						
	course will focus on the						
	following issues: Evolution of						
	management and its						
	contemporary concepts. The						
	external and internal						
L				1		 	

environment of an
organisation. The functions of
management. Motivation and
incentives. Decision making
process. Communication and
business communication in
management. Managing
conflict. Ethics and modern
management. The content and
essence of modern marketing.
Marketing planning.
Marketing research. Consumer
behaviour. Competitiveness of
a company, a product.
Integrated marketing
communications The aim of
this discipline is to provide
students with theoretical
knowledge and practical skills
to manage a transport
company in a market economy
on the basis of ensuring its
competitive advantages. The
objectives of the course are: -
to examine the main
approaches to managing an
organisation - gain a
comprehensive understanding
of modern management
methodology - definition of
the role and place of
marketing in the organisation
and its peculiarities in a
transport company -

methods - identification of the components of competitiveness of a transport company As a result of the course, the student will know mainstreams and scientific schools of management, allowing to understand the permissible areas and limits of their application for the successful functioning of the company; -methods of pricing, for formation of competitive prices in market conditions - methods of forming strategies for transport companies to enter foreign markets Will be able to: identify the strategic objectives of a transport company -identify the competitive advantages of the transport company -execute a flexible marketing strategy based on analysis of internal and external environment - assess the problem situation when making management decisions under uncertainty - develop programmes to motivate and incentivise human resources in a transport company - apply a set of				 	
compenity of a result of the course, the student will know mainstreams and scientific schools of management, allowing to understand the permissible areas and limits of their application for the successful functioning of the company; methods of pricing, for formation of competitive prices in market conditions - methods of forning strategies for transport companies to enter foreign markets Will be able to: -identify the strategic objectives of a transport company identify the strategic objectives of a transport company identify the competitive advantages of the transport company identify the competitive advantages of the transport company is set of the transport company identify the competitive advantages of the transport company identify the competitive advantages of the transport company is set of the transport company in the competitive advantage of the transport company and the competitive download in the transport company is of internal and external environment assess the problem situation when making management decisions under uncertainty if develop programmes to motivate and incentivise human resources in a transport company - apply a set of	examination of pricing				
competitiveness of a transport company As a result of the course, the student will know - mainstreams and scientific schools of management, allowing to understand the permissible areas and limits of their application for the successful functioning of the company: -methods of pricing, for formation of competitive prices in market conditions - methods of forming strategies for transport companies to enter foreign markets Will be able to: -identify the strategic objectives of a transport company -dentify the competitive advantages of the transport company -execute a flexible marketing strategy based on analysis of internal and external environment - assess the problem situation when making management decisions under uncertainty - develop programmes to motivate and incentivise human resources in a transport company - apply a set of					
company As a result of the course, the student will know - mainstreams and scientific schools of management, allowing to understand the permissible areas and limits of their application for the successful functioning of the company; -methods of pricing, for formation of competitive prices in market conditions - methods of forming strategies for transport companies to enter foreign markets Will be able to: -identify the strategic objectives of a transport company -identify the competitive advantages of the transport company -execute a flexible marketing strategy based on analysis of internal and external environment - assess the problem situation when making management decisions under uncertainty - develop programmes to motivate and incentivise human resources in a transport company - apply a set of	components of				
course, the student will know-mainstreams and scientific schools of management, allowing to understand the permissible areas and limits of their application for the successful functioning of the company; -methods of pricing, for formation of competitive prices in market conditions - methods of forming strategies for transport companies to enter foreign markets Will be able to: -identify the strategic objectives of a transport company -identify the competitive advantages of the transport company -execute a flexible marketing strategy based on analysis of internal and external environment - assess the problem situation when making management decisions under uncertainty - develop programmes to motivate and incentivise human resources in a transport company - apply a set of	competitiveness of a transport				
mainstreams and scientific schools of management, allowing to understand the permissible areas and limits of their application for the successful functioning of the company: -methods of pricing, for formation of competitive prices in market conditions - methods of forming strategies for transport companies to enter foreign markets Will be able to: -identify the strategic objectives of a transport company -identify the competitive advantages of the transport company -execute a flexible marketing strategy based on analysis of internal and external environment - assess the problem situation when making management decisions under uncertainty - develop programmes to motivate and incentivise human resources in a transport company - apply a set of	company As a result of the				
schools of management, allowing to understand the permissible areas and limits of their application for the successful functioning of the company; -methods of pricing, for formation of competitive prices in market conditions - methods of forming strategies for transport companies to enter foreign markets Will be able to: -identify the strategic objectives of a transport company -identify the competitive advantages of the transport company -execute a flexible marketing strategy based on analysis of internal and external environment - assess the problem situation when making management decisions under uncertainty - develop programmes to motivate and incentivise human resources in a transport company - apply a set of	course, the student will know -				
allowing to understand the permissible areas and limits of their application for the successful functioning of the company; -methods of pricing, for formation of competitive prices in market conditions - methods of forming strategies for transport companies to enter foreign markets Will be able to: -identify the strategic objectives of a transport company -identify the competitive advantages of the transport company -execute a flexible marketing strategy based on analysis of internal and external environment - assess the problem situation when making management decisions under uncertainty - develop programmes to motivate and incentivise human resources in a transport company - apply a set of	mainstreams and scientific				
permissible areas and limits of their application for the successful functioning of the company; -methods of pricing, for formation of competitive prices in market conditions - methods of forming strategies for transport companies to enter foreign markets Will be able to: -identify the strategic objectives of a transport company -identify the competitive advantages of the transport company -execute a flexible marketing strategy based on analysis of internal and external environment - assess the problem situation when making management decisions under uncertainty - develop programmes to motivate and incentivise human resources in a transport company - apply a set of	schools of management,				
their application for the successful functioning of the company; -methods of pricing, for formation of competitive prices in market conditions - methods of forming strategies for transport companies to enter foreign markets Will be able to: -identify the strategic objectives of a transport company -identify the competitive advantages of the transport company -execute a flexible marketing strategy based on analysis of internal and external environment - assess the problem situation when making management decisions under uncertainty - develop programmes to motivate and incentivise human resources in a transport company - apply a set of	allowing to understand the				
successful functioning of the company; -methods of pricing, for formation of competitive prices in market conditions - methods of forming strategies for transport companies to enter foreign markets Will be able to: -identify the strategic objectives of a transport company -identify the competitive advantages of the transport company -execute a flexible marketing strategy based on analysis of internal and external environment - assess the problem situation when making management decisions under uncertainty - develop programmes to motivate and incentivise human resources in a transport company - apply a set of	permissible areas and limits of				
company; -methods of pricing, for formation of competitive prices in market conditions - methods of forming strategies for transport companies to enter foreign markets Will be able to: -identify the strategic objectives of a transport company -identify the competitive advantages of the transport company -execute a flexible marketing strategy based on analysis of internal and external environment - assess the problem situation when making management decisions under uncertainty - develop programmes to motivate and incentivise human resources in a transport company - apply a set of	their application for the				
for formation of competitive prices in market conditions - methods of forming strategies for transport companies to enter foreign markets Will be able to: -identify the strategic objectives of a transport company -identify the competitive advantages of the transport company -execute a flexible marketing strategy based on analysis of internal and external environment - assess the problem situation when making management decisions under uncertainty - develop programmes to motivate and incentivise human resources in a transport company - apply a set of	successful functioning of the				
prices in market conditions - methods of forming strategies for transport companies to enter foreign markets Will be able to: -identify the strategic objectives of a transport company -identify the competitive advantages of the transport company -execute a flexible marketing strategy based on analysis of internal and external environment - assess the problem situation when making management decisions under uncertainty - develop programmes to motivate and incentivise human resources in a transport company - apply a set of					
methods of forming strategies for transport companies to enter foreign markets Will be able to: -identify the strategic objectives of a transport company -identify the competitive advantages of the transport company -execute a flexible marketing strategy based on analysis of internal and external environment - assess the problem situation when making management decisions under uncertainty - develop programmes to motivate and incentivise human resources in a transport company - apply a set of	for formation of competitive				
for transport companies to enter foreign markets Will be able to: -identify the strategic objectives of a transport company -identify the competitive advantages of the transport company -execute a flexible marketing strategy based on analysis of internal and external environment - assess the problem situation when making management decisions under uncertainty - develop programmes to motivate and incentivise human resources in a transport company - apply a set of	prices in market conditions -				
enter foreign markets Will be able to: -identify the strategic objectives of a transport company -identify the competitive advantages of the transport company -execute a flexible marketing strategy based on analysis of internal and external environment - assess the problem situation when making management decisions under uncertainty - develop programmes to motivate and incentivise human resources in a transport company - apply a set of	methods of forming strategies				
able to: -identify the strategic objectives of a transport company -identify the competitive advantages of the transport company -execute a flexible marketing strategy based on analysis of internal and external environment - assess the problem situation when making management decisions under uncertainty - develop programmes to motivate and incentivise human resources in a transport company - apply a set of	for transport companies to				
objectives of a transport company -identify the competitive advantages of the transport company -execute a flexible marketing strategy based on analysis of internal and external environment - assess the problem situation when making management decisions under uncertainty - develop programmes to motivate and incentivise human resources in a transport company - apply a set of	enter foreign markets Will be				
company -identify the competitive advantages of the transport company -execute a flexible marketing strategy based on analysis of internal and external environment - assess the problem situation when making management decisions under uncertainty - develop programmes to motivate and incentivise human resources in a transport company - apply a set of	able to: -identify the strategic				
competitive advantages of the transport company -execute a flexible marketing strategy based on analysis of internal and external environment - assess the problem situation when making management decisions under uncertainty - develop programmes to motivate and incentivise human resources in a transport company - apply a set of	objectives of a transport				
transport company -execute a flexible marketing strategy based on analysis of internal and external environment - assess the problem situation when making management decisions under uncertainty - develop programmes to motivate and incentivise human resources in a transport company - apply a set of	company -identify the				
flexible marketing strategy based on analysis of internal and external environment - assess the problem situation when making management decisions under uncertainty - develop programmes to motivate and incentivise human resources in a transport company - apply a set of	competitive advantages of the				
based on analysis of internal and external environment - assess the problem situation when making management decisions under uncertainty - develop programmes to motivate and incentivise human resources in a transport company - apply a set of	transport company -execute a				
and external environment - assess the problem situation when making management decisions under uncertainty - develop programmes to motivate and incentivise human resources in a transport company - apply a set of	flexible marketing strategy				
assess the problem situation when making management decisions under uncertainty - develop programmes to motivate and incentivise human resources in a transport company - apply a set of	based on analysis of internal				
when making management decisions under uncertainty - develop programmes to motivate and incentivise human resources in a transport company - apply a set of	and external environment -				
decisions under uncertainty - develop programmes to motivate and incentivise human resources in a transport company - apply a set of	assess the problem situation				
develop programmes to motivate and incentivise human resources in a transport company - apply a set of	when making management				
motivate and incentivise human resources in a transport company - apply a set of	decisions under uncertainty -				
human resources in a transport company - apply a set of	develop programmes to				
company - apply a set of	motivate and incentivise				
	human resources in a transport				
	company - apply a set of				
	marketing measures in order				

		to improve the image and competitiveness of the transport company. The course will focus on the following issues: Evolution of management and its contemporary concepts. The external and internal environment of an organisation. The functions of management. Motivation and incentives. Decision making process. Communication and business communication in management. Managing conflict. Ethics and modern management. The content and essence of modern marketing. Marketing planning. Marketing research. Consumer behaviour. Competitiveness of a company, a product. Integrated marketing communications	
13	Theory of Probability and Mathematical Statistics	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 estimates.	
14	Technologies of cloud computing	The aim of the course is to equip students with the skills to work with modern cloud computing technologies. After completing the course, the student should acquire the following competencies: - knowledge and understanding of the implementation of cloud computing technologies; - apply cloud technologies in software development; - justify the application of cloud	

		computing technologies in system design; - communicate professionally about cloud computing; - explore new technologies based on cloud computing. The course contains the basics of cloud computing technologies and their capabilities. The course covers virtualization technologies, the main models for providing cloud computing services. The basic information about the emergence, development and use of the concept and tools of cloud computing is presented. The stages of designing a cloud computing infrastructure are considered, including the principles, concepts and basic patterns of cloud architecture. Provides information about the functionality, specific application scenarios and practices for using modern									
		cloud platforms.			7.						
15	Transport infrastructure	The aim of the course is to provide students with theoretical and practical knowledge of the structure and indicators of transport infrastructure and n . After	5		V						

	I	, , , , , , , , , , , , , , , , , , , 	1 1	1	
completing the course the					
student should After					
completing the course the					
student should demonstrate					
the ability to analyse transport					
infrastructure by modes of					
transport, to calculate their					
indicators, to assess costs and					
performance of transport					
organisation. Content of the					
discipline: The discipline will					
be studied. General					
information about roads and					
city streets. Classification of					
roads and city streets.					
Elements of the road.					
Transport performance					
indicators of highways.					
Crossing roads and railways.					
Track facilities of railways.					
Waterways of communication.					
Port and terminals. Air					
corridors. Airports:					
classification, structure,					
special territories. Technical					
equipment of airfields.					
Pipeline transport, its varieties					
and classification, basic					
technical and economic					
characteristics. Cableways.					
Transport infrastructure of the					
city. City ways of					
communication. Features of					
transport management.					
	•	 	 		

		Transport management structure. Functions of departments and transport management services.							
16	Transport logistics	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; - carrier selection methods; be able to: - use 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, characteristics and technical and economic indicators. Classification of goods and vehicles. The	6		V	V			

		choice of type of vehicle. Transport tariffs and rules for their application. Transport costs. In-production transport logistics.									
17	Data management in logistics	The aim of the course is for students to develop practical 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	5	V				V	>		

	T				ı	1 1	1 1	1		1	 	
		working in the database										
		management system										
		environment. Creating a										
		database for a transport										
		company in MS Access.										
		The aim of this course is to			V			V				
		provide students with an										
		understanding of the economic										
		principles of operation and										
		skills in applying methods and										
		tools to improve the operation	5									
		of transport companies in a	3									
		market economy. The										
		objectives of the course are: -										
		study of the structure of assets										
		and resources of transport										
		companies - Identification of										
		factors affecting the formation										
		of the cost of production of										
18	Economy of transport	transport companies, -To										
		study the methods of										
		determining the economic										
		efficiency of investment										
		projects in the transport										
		industry. At the end of the										
		course, the student will know:										
		- the essence of the										
		mechanism of enterprises										
		functioning; -classification of										
		enterprise resources,										
		indicators and methods of										
		their effective use; -the order										
		of formation of the cost price,										
		income, profit, profitability;										

pricing; taxation of
enterprises; calculation of
economic efficiency of
investment projects; -
classification, composition
and methods of evaluation of
production and non-
production costs. Will be able
to: - to carry out a technical
and economic analysis of the
work carried out and its
efficiency; - identify the
reserves for reducing the cycle
of work performed; - evaluate
the investment attractiveness
of projects; -develop a set of
measures to improve the
efficiency of a transport
company -assess the
profitability of the company; -
carry out the economic
activities of the transport
company. The course will
cover the following issues:
The production process and
the basic principles of its
organisation. Organisational
management structure of the
transport company. Production
resources of the enterprise and
indicators of their use.
Working capital of the
enterprise. Productivity of
labour and efficiency of
parout and officioney of

		human resources. The cost of products, services or works. Calculation of the cost of freight and passenger transportation. Formation of tariffs for freight and passenger transportation. Income and profit of cargo and passenger transportation. Main indicators characterising								
		financial condition of								
		enterprise.	of basic disci	nline	20					
			ponent of ch			 	 	 	 	
19	Economic-mathematical models and methods in logistics	The aim of the discipline is to equip students with the theoretical and practical skills to build mathematical models of various tasks in logistics and 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 - build mathematical models; - be able to apply methods of problem solving; - be able to analyse the results of problem solution. Content of discipline: Meaningful	5		V		V			

		formulation and economic- mathematical model of problems. Stages of economic and mathematical modelling. Methods and models of linear programming. Transport 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							
20	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 decision making and forecasting. As a result of studying the discipline, the student must: master the basic methods of quantitative	5				V		

		analysis of numerical and non- numerical economic information in the Excell environment; know the basic approaches to forecasting economic indicators; Be able to apply methods using application packages. Content of the discipline: basic methods of quantitative analysis of numerical and non- numerical economic information in Excel environment; forecasting methods; The application of forecasting methods of economic indicators in Excel environment; Management of structured data. Using MS Excel as a database; Add-in Analysis Package. Simulation modelling in MS Excel using the Monte Carlo method.								
21	Databases	The aim of the discipline is to equip students with database development skills. As a result of mastering the discipline the student should: know the principles and approaches to database development; be able to develop a conceptual model of data; build a relational database; perform various actions with the database.	6				V	V		

student will be able to apply the logistic approach to solve various practical problems in professional activities; will acquire decision-making skills when considering various			Contant Theory	1							
warehouses, types of storages. The course deals with practical aspects related to the definition of physical and conceptual data models, the differences between them and approaches to solving problems of building databases. Various types of data storage are discussed, algorithms for organizing effective access to data and delimiting access rights to data are studied. The main part of the course focuses on the relational data model and the SQL language. The purpose of the study of the discipline is the acquisition by students of decision-making skills in the event of a variety of situations in logistics systems and supply chains. After completing the course, the student will be able to apply the logistic approach to solve various practical problems in professional activities: will acquire decision-making skills when considering various											
The course deals with practical aspects related to the definition of physical and conceptual data models, the differences between them and approaches to solving problems of building databases. Various types of data storage are discussed, algorithms for organizing effective access to data and delimiting access rights to data are studied. The main part of the course focuses on the relational data model and the SQL language. The purpose of the study of the discipline is the acquisition by students of decision-making skills in the event of a variety of situations in logistics systems and supply chains. After completing the course, the student will be able to apply the logistic approach to solve various practical problems in professional activities; will acquire decision-making skills when considering various			_								
practical aspects related to the definition of physical and conceptual data models, the differences between them and approaches to solving problems of building databases. Various types of data storage are discussed, algorithms for organizing effective access to data and delimiting access rights to data are studied. The main part of the course focuses on the relational data model and the SQL language. The purpose of the study of the discipline is the acquisition by students of decision-making skills in the event of a variety of situations in logistics systems and supply chains. After completing the course, the student will be able to apply the logistic approach to solve various practical problems in professional activities; will acquire decision-making skills when considering various											
definition of physical and conceptual data models, the differences between them and approaches to solving problems of building databases. Various types of data storage are discussed, algorithms for organizing effective access to data and delimiting access rights to data are studied. The main part of the course focuses on the relational data model and the SQL language. The purpose of the study of the discipline is the acquisition by students of decision-making skills in the event of a variety of situations in logistics systems and supply chains. After completing the course, the student will be able to apply the logistic approach to solve various practical problems in professional activities; will acquire decision-making skills when considering various											
conceptual data models, the differences between them and approaches to solving problems of building databases. Various types of data storage are discussed, algorithms for organizing effective access to data and delimiting access rights to data are studied. The main part of the course focuses on the relational data model and the SQL language. The purpose of the study of the discipline is the acquisition by students of decision-making skills in the event of a variety of situations in logistics systems and supply chains. After completing the course, the student will be able to apply the logistic approach to solve various practical problems in professional activities; will acquire decision-making skills when considering various			<u> </u>								
differences between them and approaches to solving problems of building databases. Various types of data storage are discussed, algorithms for organizing effective access to data and delimiting access rights to data are studied. The main part of the course focuses on the relational data model and the SQL language. The purpose of the study of the discipline is the acquisition by students of decision-making skills in the event of a variety of situations in logistics systems and supply chains. After completing the course, the student will be able to apply the logistic approach to solve various practical problems in professional activities; will acquire decision-making skills when considering various			definition of physical and								
approaches to solving problems of building databases. Various types of data storage are discussed, algorithms for organizing effective access to data and delimiting access rights to data are studied. The main part of the course focuses on the relational data model and the SQL language. The purpose of the study of the discipline is the acquisition by students of decision-making skills in the event of a variety of situations in logistics systems and supply chains. After completing the course, the student will be able to apply the logistic approach to solve various practical problems in professional activities; will acquire decision-making skills when considering various			conceptual data models, the								
problems of building databases. Various types of data storage are discussed, algorithms for organizing effective access to data and delimiting access rights to data are studied. The main part of the course focuses on the relational data model and the SQL language. The purpose of the study of the discipline is the acquisition by students of decision-making skills in the event of a variety of situations in logistics systems and supply chains. After completing the course, the student will be able to apply the logistic approach to solve various practical problems in professional activities; will acquire decision-making skills when considering various			differences between them and								
databases. Various types of data storage are discussed, algorithms for organizing effective access to data and delimiting access rights to data are studied. The main part of the course focuses on the relational data model and the SQL language. The purpose of the study of the discipline is the acquisition by students of decision-making skills in the event of a variety of situations in logistics systems and supply chains. After completing the course, the student will be able to apply the logistic approach to solve various practical problems in professional activities; will acquire decision-making skills when considering various			approaches to solving								
databases. Various types of data storage are discussed, algorithms for organizing effective access to data and delimiting access rights to data are studied. The main part of the course focuses on the relational data model and the SQL language. The purpose of the study of the discipline is the acquisition by students of decision-making skills in the event of a variety of situations in logistics systems and supply chains. After completing the course, the student will be able to apply the logistic approach to solve various practical problems in professional activities; will acquire decision-making skills when considering various			problems of building								
data storage are discussed, algorithms for organizing effective access to data and delimiting access rights to data are studied. The main part of the course focuses on the relational data model and the SQL language. The purpose of the study of the discipline is the acquisition by students of decision-making skills in the event of a variety of situations in logistics systems and supply chains. After completing the course, the student will be able to apply the logistic approach to solve various practical problems in professional activities; will acquire decision-making skills when considering various											
algorithms for organizing effective access to data and delimiting access rights to data are studied. The main part of the course focuses on the relational data model and the SQL language. The purpose of the study of the discipline is the acquisition by students of decision-making skills in the event of a variety of situations in logistics systems and supply chains. After completing the course, the student will be able to apply the logistic approach to solve various practical problems in professional activities; will acquire decision-making skills when considering various			~ -								
effective access to data and delimiting access rights to data are studied. The main part of the course focuses on the relational data model and the SQL language. The purpose of the study of the discipline is the acquisition by students of decision-making skills in the event of a variety of situations in logistics systems and supply chains. After completing the course, the student will be able to apply the logistic approach to solve various practical problems in professional activities; will acquire decision-making skills when considering various											
delimiting access rights to data are studied. The main part of the course focuses on the relational data model and the SQL language. The purpose of the study of the discipline is the acquisition by students of decision-making skills in the event of a variety of situations in logistics systems and supply chains. After completing the course, the student will be able to apply the logistic approach to solve various practical problems in professional activities; will acquire decision-making skills when considering various											
data are studied. The main part of the course focuses on the relational data model and the SQL language. The purpose of the study of the discipline is the acquisition by students of decision-making skills in the event of a variety of situations in logistics systems and supply chains. After completing the course, the student will be able to apply the logistic approach to solve various practical problems in professional activities; will acquire decision-making skills when considering various											
part of the course focuses on the relational data model and the SQL language. The purpose of the study of the discipline is the acquisition by students of decision-making skills in the event of a variety of situations in logistics systems and supply chains. After completing the course, the student will be able to apply the logistic approach to solve various practical problems in professional activities; will acquire decision-making skills when considering various											
the relational data model and the SQL language. The purpose of the study of the discipline is the acquisition by students of decision-making skills in the event of a variety of situations in logistics systems and supply chains. After completing the course, the student will be able to apply the logistic approach to solve various practical problems in professional activities; will acquire decision-making skills when considering various											
the SQL language. The purpose of the study of the discipline is the acquisition by students of decision-making skills in the event of a variety of situations in logistics systems and supply chains. After completing the course, the student will be able to apply the logistic approach to solve various practical problems in professional activities; will acquire decision-making skills when considering various			<u> </u>								
The purpose of the study of the discipline is the acquisition by students of decision-making skills in the event of a variety of situations in logistics systems and supply chains. After completing the course, the student will be able to apply the logistic approach to solve various practical problems in professional activities; will acquire decision-making skills when considering various											
the discipline is the acquisition by students of decision-making skills in the event of a variety of situations in logistics systems and supply chains. After 22 Business games in logistics completing the course, the student will be able to apply the logistic approach to solve various practical problems in professional activities; will acquire decision-making skills when considering various				5							
acquisition by students of decision-making skills in the event of a variety of situations in logistics systems and supply chains. After 22 Business games in logistics completing the course, the student will be able to apply the logistic approach to solve various practical problems in professional activities; will acquire decision-making skills when considering various			1 * *	3				V	V		
decision-making skills in the event of a variety of situations in logistics systems and supply chains. After 22 Business games in logistics completing the course, the student will be able to apply the logistic approach to solve various practical problems in professional activities; will acquire decision-making skills when considering various			_								
event of a variety of situations in logistics systems and supply chains. After 22 Business games in logistics completing the course, the student will be able to apply the logistic approach to solve various practical problems in professional activities; will acquire decision-making skills when considering various											
in logistics systems and supply chains. After 22 Business games in logistics completing the course, the student will be able to apply the logistic approach to solve various practical problems in professional activities; will acquire decision-making skills when considering various											
Business games in logistics supply chains. After completing the course, the student will be able to apply the logistic approach to solve various practical problems in professional activities; will acquire decision-making skills when considering various			· · · · · · · · · · · · · · · · · · ·								
Business games in logistics completing the course, the student will be able to apply the logistic approach to solve various practical problems in professional activities; will acquire decision-making skills when considering various											
student will be able to apply the logistic approach to solve various practical problems in professional activities; will acquire decision-making skills when considering various			supply chains. After								
the logistic approach to solve various practical problems in professional activities; will acquire decision-making skills when considering various	22	Business games in logistics	completing the course, the								
various practical problems in professional activities; will acquire decision-making skills when considering various			student will be able to apply								
various practical problems in professional activities; will acquire decision-making skills when considering various			the logistic approach to solve								
professional activities; will acquire decision-making skills when considering various			various practical problems in								
acquire decision-making skills when considering various											
when considering various											
problem situations in logistics			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.							
23	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 content of the discipline: principles and concept of simulation. Building a conceptual model. Process-	5	V		V			

		oriented 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.						
24	Intelligent transport systems	The aim of the course is to provide students with a theoretical foundation of knowledge on the principles and architecture of intelligent transport systems. After completing the course, the student should know the current state of legal and normative and technical regulation of information support of transport activity in the RK; gain theoretical and practical knowledge in the field of intelligent transport systems; be able to apply promising methods of solving professional problems based on knowledge of global trends in the development of intelligent transport systems. Content of the course: Basic concepts related to Intelligent Transport Systems (ITS). ITS classification. The main areas of application of ITS. ITS and logistics. Introduction to ITS	5					

		Project Development Stages of the development of ITS projects. Basic definitions. Principles of developing technical specifications for the justification of the ITS project. Development of the architecture of performance indicators for the ITS project. ITS models. Development of the ITS project. The structure and composition of the ITS system project. Examples of the use of ITS in logistics									
		systems. Promising ITS in logistics and supply chains.									
25	Internet marketing for the promotion of logistics services	The aim of the discipline is to equip the students with the skills to develop an internet application to promote and improve the efficiency of the logistics services provided. As a result of mastering the discipline the student should: Know the features and tools of communication in the Internet environment; the characteristics and evolution of the communication tools of the Internet environment; be able to evaluate the effectiveness of the Internet environment to promote logistics services; develop an	5	v			V	v	V	V	

Internet application to
promote logistics services.
Content of the discipline: The
concept of logistics service, its
role in the formation of
competitive advantages. The
principles of logistics services.
Information flows in logistics.
Features of approaches to the
marketing of logistics
services. Development of a
service strategy for consumers
of material flows in logistics
channels of horizontal type.
The concept of Internet
marketing, its role in the
formation of competitive
advantages of the company.
Characteristics and evolution
of communication tools of the
Internet environment.
Evaluation of the effectiveness
of Internet marketing tools.
Trends in the development of
contextual advertising.
Development of Internet-
application for promotion of
logistics services. Principles
of providing logistics services.
Information flows in logistics.
Problems and prospects of
development of service
logistics in Kazakhstan.
Principles of service
 principles of service

organization in logistics.
Principles of service
organization in logistics
channels of various types
(vertical, horizontal, multi-
level). Features of approaches
to marketing logistics center
services. Stages of formation
of the logistics service system.
Development of a customer
service strategy for material
flows. Stages of developing a
strategy for servicing
consumers of material flows
in horizontal logistics
channels. The main
requirements of logistics in
the process of strategy
development. Mission,
logistics mission,
communication with corporate
strategy. Logistics strategy in
the field of service: concept,
feature, example. Factors
when developing a logistics
strategy. Types of logistics
strategies. Stages of strategic
planning of the logistics
system. Strategic planning
tasks. Planning of logistics
service organization. Problems
of service logistics planning.
Indicators for evaluating the
efficiency of the logistics

		system of the enterprise.										
		Logistics service: types of										
		plans. Logistics service										
									1			
26	Information systems and technologies in logistics	planning: essence, examples The aim of the course is to develop skills in developing logistics process management information subsystems. As a 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 (LIS). Functionalities, business processes and users of LIS. LIS handbook. LIS database. Rapid response systems. Decision-making systems. Information flows in LIS: parameters, classification. Electronic data interchange (EDI) systems. EDI platforms, connections and standards. Electronic identification. Basic automated identification systems. Technologies for	6	v				V	V	V		
		supply chain monitoring										
		systems. Virtual logistics										
		centres.										

			5					T	[
		The aim of the discipline is to	3	V	V	V	V	V	V	V	
		provide students with									
		systematic knowledge and									
		understanding of the									
		conceptual foundations of									
		logistics as an instrument of									
		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									
27	Commonaial logistics	able to set goals and formulate									
27	Commercial logistics	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								
28	Mathematical statistics on transport	Introduction Purpose, tasks and organization of statistical discipline: Interpretation of the discipline: Introduction Purpose, tasks and organization of statistical data and establishing the law of	5				V			

		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 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									
		Operational scheduling. Comprehensive optimization of current planning. Statistics of freight and passenger traffic.									
29	Production and logistics modeling	The purpose of the discipline is to study the basic concepts and methods of modelling and simulating production and logistics processes. Content: Implementation of simulation	5	V	V			v			

		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)	5							
30	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	7	V	V	V	V		V	

			 	<u> </u>	
	transport; organization and				
	technology of multimodal				
	transport and rules 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).				
L			 		

31	Logistic 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 flows and managing complex logistics processes. Logistic process control / process control. Conceptual design of management, development of	5	V	V		V		v			v		V	V	
		a logistics process														
			of profile disc													
			ersity compo			-	1		ı	1	1		ı	ı	ı	
32	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	5	V	V	•	V	V				V		V		

		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 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.	5					Y		
33	Warehouse logistics	The aim of the course is to provide students with theoretical and practical knowledge of warehouse organisation. After completing	-	V				V	V	

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 the
enterprise. The investment
program of the project of
brogram or me broleer or

		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.									
34	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:	4	V	V	V			V	V	

		independently acquire new knowledge in the professional sphere; determine the size of the 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 calculating optimum order size. Inventory management under uncertainty.	6	V				V	V		
35	Supply Chain Management	The purpose of the discipline is to study the essence and content of supply chain management as a science, as well as the areas of application	-	v	V	V		V	•		

of its concepts in practice. As
a result of mastering the
discipline the student should:
Knowledge: - Classification of
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
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

			f profile dis ponent of cl								
36	Innovative directions in the organization of freight traffic	The purpose of the discipline - acquiring the skills to use modern information systems and technology in the organization of cargo transportation and the ability to develop and improve subsystems of transportation process management. As a result of studying this discipline, students must know: the advanced information systems and technologies used in the transportation process; be able to apply them and acquire skills to develop information subsystems of cargo transportation process management. Content of the discipline: the concept and importance of innovative directions in the organization of freight transportation; innovative technologies in the organization of freight transportation; and their	4	V			V	>	v		

		implementation; ways to	
		improve the organization of	
		the transportation process;	
		ways to reduce the cost of	
		operating rolling stock; an	
		integrated approach to the	
		organization of road transport	
		at a motor transport enterprise	
		in the context of the	
		commercialization of the sale	
		of motor transport services.	
		The aim of the course is to 5	\mathbf{v}
		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,	
	Teamwork and business	negotiations, conversations	
37	communications	and internet communications	
	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 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 communications. Features of business communication. Conducting business meetings: conversations and negotiations. Written form of business communication. Features of public communication. Modern forms of Internet communication.										
38	Controlling of logistics systems	The purpose of the discipline is to develop students' knowledge and skills in implementing controlling functions in logistics systems.	5	V		V	,	V				

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
factors for the use of
controlling 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.								
		The purpose of the discipline	5	V				,	<i>,</i>	v
		is to develop students' skills in		•						'
		conducting research work and								
		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								
39	New Research Directions in	scientific achievements and								
	Logistics	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.								
40	Organization transportations and traffic control	The aim of the discipline is to study the theoretical foundations and methods of organising the delivery of goods and passengers 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	5	V	V	V	V		V	

		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, methods of their study. Quantitative and qualitative indicators of transport operation.								
41	The basics of FEA and regulations for international transportation	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	5	V	v		v			

		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 INCOTERMS. The content of 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.								
42	Fundamentals of research work	The aim of the course is to 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	5	V						V

F		Т	1 1	1 1	1 1	1	1 1	1 1
	to conduct a search and review							
	of scientific literature; possess							
	the skills of searching and							
	working 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.							
1		I I		1 1			1 1	

	T	1	1		-	1	 		 	 	
		The purpose of the discipline	6	V		V		V			
		is to study the process of									,
		transportation of goods by									
		road as a design object. After									
		completing the course, the									
		student should know the									
		stages of designing the									
		process of transporting goods;									
		main technological processes									
		of transportation, indicators									
		and technologies of the									
		transportation process; be able									
		to design a system for the									
		transportation of goods by									
		road; master the skills of									
		designing a transportation									
43	Fundamentals of the design of										
	motor freight delivery systems										
		functioning of transport as a									
		branch of material 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 process of									
		goods. The 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 indicators. Evaluation of the effectiveness of freight delivery systems.								
44	Enterprise resource planning (ERP systems)	The aim of the discipline is to study the theoretical aspects of enterprise resource management, mastering the general patterns, principles and methods of enterprise resource planning based on the application of corporate information systems. After completing the course the student will know the standards and concepts of resource management systems (MRP, CRP, MRP II, ERP, ERP II, etc.), be able to analyse the market of software, information products and services to solve applied problems and create information systems; be able to choose rational IS and ICT solutions for business management; acquire skills of working in corporate ERP system. Content of the course:	5				V	V	V	

			_
		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.	
45	Logistics systems design	The purpose of the discipline is to study the process of designing logistics systems, modeling methods for the main logistics business processes, managing the design process. After completing the course, the student should know the basic aspects, methods and algorithms for designing logistics systems; be able to develop the organizational structure of the logistics system; master the skills of system analysis of logistics during the design process. The content of the discipline: 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 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.									
46	The office of freight and commercial work	The purpose of the discipline is to master the technology of cargo 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	5	V		v	V	v	V	V	

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
transportation of cargo
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

	T		\neg
		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 and road transport.	
		The purpose of the discipline 5 V	
		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	
4.77	Project Management in	standards existing in world	
47	Logistics	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; 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 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.									
48	Digital technologies for inventory management in the supply chain	The purpose of teaching the discipline is to equip students with the skills to apply and develop information systems and inventory management technology. As a result of mastering the discipline the student should: Know advanced digital supply chain technology, inventory management; be able to apply digital technologies in logistics; develop subsystems of information systems of inventory management, test and research on the subsystem of information systems of	4	v		v		•		V	

	-	• ,					I			
		inventory management.								
		Content: Major trends in the								
		development of information								
		systems and technologies in								
		logistics. Key leading forces								
		in the development of logistics								
		and supply chain. Digital								
		supply chain technology.								
		Standard functions of								
		information systems for								
		inventory management.								
		Practical application of								
		information systems for								
		inventory management.								
		Development of inventory								
		management subsystems.								
		The purpose of studying the	5					V	V	
		discipline "Emotional								
		Intelligence" is the formation								
		of students' theoretical and								
		practical knowledge, skills								
		and abilities of emotional								
		competence in the								
		management of value chains,								
1.0		as well as the formation of								
49	Emotional Intelligence	emotionally competent								
		behavior necessary for the								
		professional activity of a high-								
		level specialist based on the								
		consideration of the emotional								
		factor in the business								
1		processes of modern								
		companies. After completing								
1		the course, the student should								
		the course, the student should								

The same that is the small and
know: - basic theoretical
concepts of emotional
intelligence; - principles of
managing one's own emotions
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

5. Curriculum of educational program

MINISTRY OF EDUCATION AND SCIENCE OF THE REPUBLIC OF KAZAKHS KAZAKH NATIONAL RESEARCH TECHNICAL UNIVERSITY BARRED AFTER KLSA



CURRICULUM
of Educational Program on survilinent for 2022-2023 scademic year

Educational program 6B011310 - "Digital Logistics" Group of Educational programs B095 - "Transport services"

	Form of study: full-time	Cycle	Total		Classroom		Ferm of						COURSES A	arnes and semesters		
	Name of State State		amount	hours	amount	(including	control		urse 2	3	urse	5	ourse	IVo	ourse	
iscipline code	Name of disciplines		in credits		lec/lab/pr	TSIS) in hours		semester		semester	semester		sensiter	iemester	seme	
				M-1	Module of	language t	ralalar			-	00000					
LN0 908	English language	GED, RC	10	300	0/0/6	210	E	- 5	- 3							
LNG 104	Kazakh (Ramine) langunge	GED, RC	10	300	0/0/6	210	E	.5	5			1	100			
				34-2	. Module of	physical t	raining									
FK 101-104	Physical Culture	GED, RC	. 1	240	0/0/8	120	Differedit	2	2	2:	2					
-		1			ledule of int			y		_		_			_	
CSE662	Introduction to Web programming	BDUK	- 5	150	1/1/1	103	II.	-	5				-	-	-	
CSE155	Algorithmization and Progressing	BDUK	- 5	150	1/1/1	105	£			5		-	-	-	-	
CSE677	Information and Communication technology	GED, RC		150	2/1/0	108	E				5					
MNG121	Logistics: information technology and restorm	BDUK	٥	150	2/1/9	105	Ε			-		5			_	
LOG119	Data management in legistics	BDUK	- 5	150	2/1/0	105	E					5			_	
C5E423	Technologies of cloud computing	BDUK	- 5	150	2/1/0	105	E					5			-	
3601	Elective	BD CCH	. 5	150	2/1/0	105	E	-				-	5	_	-	
3603	Elective	7D CCH	4	150	2/0/1	105	- 1	-	-	-		_	1 4	6	-	
470)	Elective	BD CCH		180 M-4 Mo	dule of soci		teveloper	unt						-		
HUM100	Modern history of Kazakhstan	GED, RC	- 5	150	1/0/2	105	3	1	3	1						
100000	Modele of socio-political knowledge	-									150					
илмин	(sultant studies, psychology)	GED, RC	3	150	1/0/2	105	3								L	
HUMIER	Module of socio-political knowledge	GED, RC	. 1	90	1/0/1	60	. 3				3					
103M132	(sociology, political science) Philosophy	- DESA, NO.	- 5	150	2/9/1	105	9			3						
HUSHIO	T-000Hg/H	M-5	Module		corruption		ology and	i life safe	ty base	100						
22.534.64	Fundamentals of anti-comption culture	1	T.		100	100000000000000000000000000000000000000	1	1	1.000							
HEW 133												1				
MNG 488	Fundamentals of Entrepreseurship and Leadership	GED, CCH		150	2/0/1	150				5						
HYD 438	Ecology and life safety														_	
		Marian San	M-6.	Module	of mathema	itical train		modelling	1			_	-	-	-	
MAT423	Methoristics	BD, UC	3	150	1/6/2	105	E	1 5	-	-	-	-	-	-	-	
MATIT?	Theory of Probability and Mathematical Statistics	BD, UC	5	150	1/1/1	105	E		30							
Lacros	Sconomic-mathematical models and	EA BK	5	150	100	108	9			3						
L0G503	methods in logistics	-		-	-		1	-	-	-	-	-	-	_	+	
2492	Elective	BD, UC	5	150	2/1/0	105	E	-	-	-	3	1	-	-	+-	
3501	Elective	MD, UC	5	150	2/0/1	105	E		_	_		5			1	
7.77			M-7, Mc	odule of	ransport in	frustructu	re and to	ansporta	tion	_	-		_		17	
LOGIO	Introduction to specialty	BD, UC	5	150	2/0/1	105	E	5								
		BD, UC	5	150	2/0/1	105	E	5								
LOG523	Transport infrastructure	BD, UC	1	120	1/0/1	75	E	-	- 4							
LOG521	Cargo handling		-	+	_	105	E	_	-	.5						
2301	Elective	BD, UC	5	150	2/0/1	192	- 4	_	_	-	1	1			+	
LOGISI	Freight transport systems	BD, UC	5	150	2/0/1	105	E			- 5						
Ederat	Torrigant Installer	SD,UC	6	180	2/0/2	135	E				6					
L0G500	Transport legisles	-	-	100		-	-	1	+							
MNGIIO	Management and marketing in astomobile transportation	BD, CCH	5	150	2/0/1	105	1					-	-		-	
3302	Electiva	BD, UC	5	150	2/1/0	103	E					5	-		-	
LOG502	Transport modes interactions	BD, UC	4	120	1/9/1	75	E						4		-	
3602	Elective	BD, CCH	1	150	2/1/0	105	E						5			
MNG109	Economy of transport	BD, UC	3	150	2/9/1	108	8			17				5		
AAP173	Educational practice	BD, UC	2				E		2	V.				19-		
	A District Control of the Control of	M-8.	Module	of logist	ics function:	al areas an	d supply	chain m	anageme	nt				_	-	
L0G133	Warehouse logisties	PD, UC		150	2/0/1	105	E			10		-	5		-	
	Investory management in logistics	PD, UC	4	120	2/0/1	75	E						4			
	SASTOMS.	PD, UC	-	190	2/0/2	135	E	1	1					6		
L0G516	F. 1. Ch. 1. 34				2/1/0	108	E		111					. 5	1	
LOG506 LOG505	Supply Chain Management		. 5													
LOG506 LOG505 4702	Supply Chain Management Bactive	PD, UC		150	2/9/1	105	E							.5	-	
LOG586 LOG585 4702 MNG137	Supply Chain Management Elective Production logistics	PD, UC PD, CCH	5			105								5	+	
LOG506 LOG505 4702 MNG137 6803	Supply Chain Management Elective Production logistics Elective	PD, UC PD, CCH PD, CCH	5 5	150	2/9/1		E				2			5	ŧ	
LOG586 LOG585 4702 MNG137	Supply Chain Management Elective Production logistics	PD, UC PD, CCH	5 5	150	2/9/1	105	E E E				2		3	5		

	12. TOTAL OF THE PARTY OF THE PARTY OF THE PARTY.							6	0		0	6	0	6	0
	Total based on UNIVERSITY:							27	33	32	28	30	30	32	21
AA22500	Military affairs	ATT	0												
		01		1-11. Mo	dule of add	litional typ	es of train	ning				_	_		_
CA103	Defense of the thesis (project)	FA	6												- 6
EMM3	Preparation and writing of a thesis (project)	FA	6												- 6
				M-1	0. Module	of final atte	station				-	-		_	
4802	Элоктив	пд кв	5	150	2/0/1	105	E					-			- 5
4811	Эпоктия	пд кв	. 6	150	2/0/1	105	E								: 0

	Number of credits for the entire pe	ried of stu		redits	
Cycle code	Cycles of disciplines	required component (RC)	university component (DC)	component of phones (CCH)	Total
GED	Cycle of general education disciplines	51	.5	-	56
BD	Cycle of basic disciplines		- 81	31	112
193	Cycle of profile disciplines		25	35	60
	Total for theoretical training:	51	111	66	228
FA	final attestation	12		100	12
7777	TOTAL:	63	111	66	240

Decision of the Scientific Council of KarNRTU named after K. Sathayev. Protocol No Bor " LS" D 4 202 L.	
Decision of the Educational and Methodological Council of KazNRTU named after K.Satbayev, Protocol No 4 or "26" 04	202 2
Decision of the Academic Council of the Project management Institute named after E.A. Turkebayev. Protocol No. 6 or " 24" 02	202 2
-Allera P	

Project management Institute Director

Department Head of Logistics

Council representative from employers

B.A. Zhautikov

B.B. Amralinova

G.S. Mukhanova

S.M. Medetbeke

MINISTRY OF EDUCATION AND SCIENCE OF THE REPUBLIC OF KAZAKHSTAN KAZAKH NATIONAL RESEARCH TECHNICAL UNIVERSITY after K. SATBAYEV



Directors the Institute project management after E.A. Turkebayev
B.B. Amralinova
2022y.

MAJOR ELECTIVE DISCIPLINES educational program for the 2022-2023 academic year admission Educational program 6B011310 - "Digital Logistics"

Group of Educational programs B095 - "Transport services"

			Full-time study	Study duration: 4 years	Academic degree: Ba	chelor in se	ervices			
Vear of study	Code of elective	Code of discipline		Name of discipline	Semestr	Cycle	Credits	Total hours	lec/lab/pr	SIW (including SIWT) in hours
				M-3. Module of in	formation technology					
	3601	LOGIII	Data Analysis in Excel		6	БДКВ	5	150	2/1/0	105
3	20,000	L/OG525		promotion of logistics services	0	BALKE		120	2/1/0	105
	3603	LOG526		ventory management in the supply chain	6	пдкв	4	120	2/1/0	75
_		LOG527		e organization of freight traffic		пидна		120	2/1/0	19
4	4701	LOG507	Information systems and to	echnologies in logistics	7	БД КВ	6	180	2/1/0	135
	-	CSE626	Databases	STATE OF THE STATE				100	1/1/1	133
_					tical training and modellin	g				
2	2402	LOGI14	Simulation of logistics sys		4	БД КВ	5	150	2/1/0	100
	2004	LOG108	Mathematical statistics on			вд кв	3	130	2/1/0	105
3	3501	LOG124	Production and logistics m		- 5	БДКВ	5	100	2/1/0	
	2220	LOG126	Intelligent transport system	ns	,	рджв	,	150	2/1/0	105
				M-7. Module of transport inf	rustructure and transports	ition				
2	2301	TRA453.	Logistic process managem	rent		**************************************	7 34	100	2/0/1	800
*	2301	LOG127	Commercial logistics		- 1	БДКВ	.5	150	2/0/1	105
	3502	LOG510	Organization transportatio	ns and traffic control			12	13.0	2/1/0	
3	3302	TRA173	The office of freight and o	ommercial work	- 5	пд кв	5	150	2/0/1	105
3	3602	MNG170	Business games in logistics		6	en en	- 2	1940	1/0/2	1100
	3002	LOG129	Multimodal transport techs	nology	6	БДКВ	5	150	2/0/1	105
				M-8. Module of logistics functional	areas and supply chain ma	inagement				
	4702	TRA187	The basics of FEA and reg	ulations for international transportation	7	na en	392	100	2/0/1	100
4	4706	LOGI16	Enterprise resource plannis	ng (ERP systems)	1	пдкв	5	150	2/0/1	105
7	4803	LOG520	Emotional Intelligence		8				1/0/2	
	4803	LOG519	Teamwork and business co	ommunications	- 8	пдкв	5	150	1/0/2	105
		-		Модуль-9, "В	&D and project "				17072	
	4703	LOG517	Fundamentals of research			Taxana I	931	100000	2/0/1	20.00
	4:05	LOG518	New Research Directions i	n Logistics	7	пдкв	5	150	2/0/1	105
4	4801	LOG515	Fundamentals of the design	n of motor freight delivery systems	8	OR VO	6	180	2/1/1	135
	4001	LOG516	Logistics systems design			пдкв		180	2/1/1	135
- 1		LOG135	Project Management in Lo	gestics	944	2500000	10	10000	2/1/0	V1027
	4802	MNG141	Controlling of logistics sys		8	ПД КВ	5	150	2/0/1	105

Credits numbers of elective disciplines over the entire period of study							
Cycle of disciplines	Credits						
Cycle of general disciplines (G)	0						
Cycle of basic disciplines (B)	31						
Cycle of special disciplines (S)	35						
TOTAL	66						

Decision of the Academic Council of the Project management Institute named after E.A. Turkebayev, Protocol No 6 or "14" 01 2022

Head of Department of Logistics;

Representative of the Council from employers

S.M. Medetbekov