NJSC SHAKARIM UNIVERSITY OF SEMEY

EDUCATIONAL PROGRAM

6B11 - Services
(Code and classifcation of the feld of education)

6B113 - Transport services
(Code and classifcation of the direction of training)

1040
(Code in the International Standard Classifcation of Education)

B095 - Transport service
(Code and classifcation of the educational program group)

6B11303 - Logistics and organization of transportation
(Code and name of the educational program)

Bachelor
(Level of preparation)

Semey

Educational program

6B11 - Services
(Code and classification of the field of education)

6B113 - Transport services
(Code and classification of the direction of training)

1040
(Code in the International Standard Classification of Education)

B095 - Transport service
(Code and classification of the educational program group)

6B11303 - Logistics and organization of transportation
(Code and name of the educational program)

bachelor
(Level of preparation)

Semey 2023

PREFACE

Developed

The educational program 6B11303 - Logistics and organization of transportation in the direction of preparation 6B113 - Transport services on the basis of the State Compulsory Standards of Higher and Postgraduate Education approved by the Order of the Ministry of Science and Higher Education of the Republic of Kazakhstan dated July 20, 2022 No 2 (as amended by the order) was developed by the Academic Committee dated 20.02.2023 No 66).

Members of the Academic Committee	Full name	Academic degree, academic title, position	Signature
Head of the Academic Committee	Nurymkhan Gulnur	Dean of the Faculty of Engineering and Technology	
Educational program manager	Nagayeva Xeniya	senior lecturer	
Member of the AC	Zhumadilova Gulmira	head of the department, PhD	
Member of the AC	Bakiyeva Anara	senior lecturer, PhD	
Member of the AC	Karimkhanov Bekzat	leading Occupational Safety and Industrial Safety Engineer of the Industrial Safety Service Department, Branch of LLP "KTZ – Cargo transportation" - "Semey branch CT"	
Member of the AC	Gurzhiy Yelena	cargo dispatcher of logistics and transportation organization department, Branch of LLP "KTZ – Cargo transportation" - "Semey branch CT"	
Member of the AC	Kanatkyzy Aziza	6B11303 – Logistics and organization of transportation, student of the LOP-101 group	
Member of the AC	Bredneva Alina	6B11301-Organization of transportation, traffic and operation of transport, student of the group OP-013	

Reviewing

Full name of the reviewer	Position, place of work	Signature
Gutsalova Viktoriya	Director, LLP TORGSERVICE KZ-3	

Reviewed

at the meeting of the Quality Assurance Commission of the Faculty of Engineering and Technology
Recommended for approval by the Academic Council of the University
Protocol № 4.6 "10" April 2023
Chairman of the Commission on Quality Assurance Abdilova G.

Approved at the meeting of the Academic Council of the University Protocol No. 8 "25" April 2023.

Approved

at the meeting of the Academic Council of the University
Protocol № 1 "01" of September 2023
Chairman of the Academic Council of the University Orynbekov D.R.

Content

1.Introduction

1.1.General data

Білім беру бағдарламасы Еуропалық Одақтың "GeKaVoc - Қазақстандағы логистика, мехатроника және орнықты энергиямен жабдықтау жөніндегі дуальді білім беру бағдарламаларының трансфері" және білім беру бағдарламасының бір бөлігі болып табылатын KazDual – "Қазақстанда дуальді жүйені енгізу" бағдарламаларының қолдауымен әзірленді.

The educational program provides for the education of a student with special educational needs in the conditions of a higher educational institution, as well as his socialization and integration into society.

1.2.Completion criteria

The main criterion for the completion of the educational process for the preparation of bachelors is the mastering by students of at least 205 credits of theoretical training, as well as at least 27 credits of practical training, 8 credits of final certification.

A total of 240 credits.

1.3.Typical study duration: 4 years

2.PASSPORT OF THE EDUCATIONAL PROGRAM

2.1.EP purpose	Training of highly qualified and competitive personnel with professional competencies in the field of logistics and transportation organization
2.2.Map of the training profile within the educational program	
Code and classification of the field of education	6B11 - Services
Code and classification of the direction of training	6B113 - Transport services
Code in the International Standard Classification of Education	1040
Code and classification of the educational program group	B095 - Transport service
Code and name of the educational program	6B11303 - Logistics and organization of transportation
2.3.Qualification characteristics of the graduate	
Degree awarded / qualification	Bachelor in the field of services in the educational program «6B11303 Logistics and organization of transportation»
Name of the profession / list of positions of a specialist	1. Engineer for the organization of cargo transportation 2. Engineer for the organization of cargo transportation in the supply chain 3. Information logistician 4. Logistician 5. Logistics Manager 6. Production Logistics Manager 7. Warehouse Manager 8. Supply Manager 9. Manager for Customs Clearance and Certification 10. Transport Manager 11. The manager responsible for ensuring traffic safety 12. Head of the Logistics Department 13. Head of the Passenger Transportation Service 14. Head of the Transport Service 15. Head of the Freight Forwarding Agency 16. Head of the Department of Organization and Conditions of Transportation 17. Head of the Logistics Department 18. Transport Logistics Specialist 19. Specialist in multimodal transport 20. Specialist in the development of passenger transport infrastructure 21. Manager of the transport and logistics center
OQF qualification level (industry qualification framework)	6
Area of professional activity	1. Planning, organization, execution and control of the movement and placement of material and non-material flows and resources; 2. Design, optimization, development of logistics systems and technologies; 3. Organization of transportation and traffic management on transport; 4. Transportation of passengers, baggage, cargo and mail; 5. Control and safety in transport;

	6. Organization of warehouse activities; Implementation of a complex of services for transport services of shippers and consignees of transport.
Object of professional activity	1. Consulting firms 2. Logistics centers 3. International corporations 4. Manufacturing enterprises 5. Customs authorities and terminals 6. Commercial enterprises 7. Transport companies and hubs 8. Forwarding companies
Types of professional activity	- service and operational; - production and technological; - organizational and managerial; - design and engineering.
Graduate Model	1 Description of the educational program The graduate model of the educational program "6B11303 Logistics and organization of transportation" in the direction of training 6B113 Transport services was developed on the basis of the State Standard of the Republic of Kazakhstan dated 31.10.2018 № 604. The license number of the training is KZ38LAA00018432, the validity period is indefinite, the date of issue is June 25, 2020, the order of the Chairman of the Committee for Quality Assurance in the Field of Education and Science of the Ministry of Education and Science of the Republic of Kazakhstan dated June 25, 2020 № 274. The educational program was developed with the support of the European Union programs "GeKaVoC - transfer of dual educational programs in logistics, mechatronics and sustainable energy supply in Kazakhstan" and KazDual – "Introduction of a dual system in Kazakhstan", which are part of the educational program. Currently, logistics specialists are very much in demand in the labor market. The type of the Minor educational program is Management in logistics. 2 The purpose of the educational program Training of highly qualified and competitive personnel with professional competencies in the field of logistics and transportation organization 3 Objectives of the educational program - to form fundamental knowledge, skills and competencies necessary in professional activity; - to form a graduate`s readiness to organize rational interaction of modes of transport, freight forwarding companies, logistics centers and rolling stock operators in the transportation of passengers, baggage, cargo and cargo; – to ensure higher mobility of graduates in changing labor market conditions; – to ensure the adaptation of higher education in the specialty and scientific research to the changing

	needs of society and the achievements of scientific thought; - to form a graduate`s readiness to form a package of accompanying documentation necessary for conducting logistics activities; – to ensure recognition of the level of training of specialists in other countries.  4 The results of the bachelor`s degree in the educational program "6B11303 Logistics and transportation organization" (6 qualification level of the NRK) in accordance with the Dublin descriptors assume the following abilities: 4.1 Mastered competencies expressed in the achieved learning outcomes -Demonstrate socio-cultural, economic, legal, environmental knowledge, communication skills, apply information technologies taking into account current trends in the development of society. - Carry out information processing processes on a personal computer, performs input and output of information from data carriers, communication channels, use multimedia capabilities of a personal computer in work. - Use the basics of mathematical and economic knowledge to solve logistical problems. - Determine the type and purpose of the cargo, establishes a relationship with the modes of transport for transportation. - Simulate production processes in transport to improve transport productivity and the quality of work in the organization of traffic. - To make decisions on the choice of new technologies for cargo processing and passenger delivery based on the study and generalization of innovative approaches of world and domestic experience. -To make decisions on the maintenance of the transportation process and operation of transport, taking into account the effective use of rolling stock. - Analyze and process information, technical data, indicators and results of transport systems. -Apply modern management approaches, business administration and entrepreneurial solutions in the field of logistics and supply chain management. -To develop a technological process for the creation and operation of a transport complex, respectively, to draw up documentation on transportation. 4.2 Personal qualities of the graduate Personal qualities include: - ability to work in a team; - punctuality; - the ability to personal and professional growth; - the ability to clearly, logically express your thoughts, formulate the essence of the problem and set tasks, the ability to effectively present your ideas; - responsibility; - performance; - initiative;

	- discipline.

3.Modules and content of the educational program

Module 1. Fundamentals of social and humanitarian knowledge

Foreign language

Discipline cycle	General educational disciplines
Discipline component	Compulsory component
SubjectID	29315 (3022490)
Course	1
Term	1
Credits count	5
Practical and seminar classes	45hours
Independent work of a student under the guidance of a teacher	35hours
Independent work of the student	70hours
Total	150hours
Knowledge control form	Examination

Short description of discipline

The content of the discipline «Foreign language» assumes the formation of students`linguo- cultural, socio- cultural, cognitive and communicative competencies at B2 level. The discipline is aimed at deep and extended study of productive and receptive language material. As a result, the student must be able to understand all types of speech activity in accordance with the requirements of B2 level and master the subject content of the discipline and speech.

Purpose of studying of the discipline

Formation of linguo- culturological, socio- cultural, cognitive and communicative competence of students in the process of foreign language education at the B2 level, pan-European competence. Depending on the level of training, the student at the time of completing the course reaches the level B2 of the pan-European competence, if the language level of the student at the start is higher than the level B1 of the pan-European competence.

Learning Outcomes

ON1 Demonstrate socio-cultural, economic, legal, environmental knowledge, communication skills, apply information technologies taking into account current trends in the development of society.

Prerequisites

School course

Postrequisites

Foreign language

Kazakh language

Discipline cycle	General educational disciplines
Discipline component	Compulsory component
SubjectID	29327 (3022492)
Course	1
Term	1
Credits count	5
Practical and seminar classes	45hours
Independent work of a student under the guidance of a teacher	35hours
Independent work of the student	70hours
Total	150hours
Knowledge control form	Examination

Short description of discipline

The discipline is aimed at deepening the acquired knowledge of students in the framework of the school curriculum, as well as the use of language and speech means based on a full understanding of vocabulary and grammatical system of knowledge; the formation of socio-humanitarian worldview of students within the framework of the national idea of spiritual revival; free expression of mobile thought as a means of speech communication and in the process of communication; awareness of the national culture of the people, the ability to distinguish features of national cognition.

Purpose of studying of the discipline

Forms through phraseological units the recognition of national culture, its meaning as a linguistic unit related to spiritual culture; skills of identifying facts of national and cultural significance in the formation of Kazakh phraseology.

Learning Outcomes

ON1 Demonstrate socio-cultural, economic, legal, environmental knowledge, communication skills, apply information technologies taking into account current trends in the development of society.

Prerequisites

School course

Postrequisites

Kazakh language

Bases of economics, law and ecological knowledge

Discipline cycle	General educational disciplines

Discipline component	University component
SubjectID	29330 (3022584)
Course	1
Term	1
Credits count	5
Lections	15hours
Practical and seminar classes	30hours
Independent work of a student under the guidance of a teacher	35hours
Independent work of the student	70hours
Total	150hours
Knowledge control form	Examination

Short description of discipline

The integrated discipline includes the main issues and principles in the field of fundamentals of law and anti- corruption culture, economics, entrepreneurship and leadership, ecology and life safety. Features of the use of regulatory legal acts, the ability to use the business, ethical, social, economic, entrepreneurial and environmental standards of society. Specifics of environmental-legal, economic, entrepreneurial relations, leadership qualities and principles of combating corruption.

Purpose of studying of the discipline

It consists in studying the basic patterns of the functioning of living organisms, the biosphere as a whole and the mechanisms of their sustainable development under the conditions of anthropogenic impact and emergency situations; in understanding the concept of corruption, the legitimacy of the fight against it, the content of the state penal policy; in the formation of students` basic fundamental stable knowledge on the basics of economic theory, in instilling the skills and abilities of economic thinking; in introducing students to the theory and practice of entrepreneurship, to the basics of creating their own business; in the formation of theoretical knowledge and practical skills for the development and improvement of leadership qualities.

Learning Outcomes

ON1 Demonstrate socio-cultural, economic, legal, environmental knowledge, communication skills, apply information technologies taking into account current trends in the development of society.

Prerequisites

School course

Postrequisites

Basic and profile disciplines of the EP

Russian language

Discipline cycle	General educational disciplines
Discipline component	Compulsory component
SubjectID	29328 (3022494)
Course	1
Term	1
Credits count	5
Practical and seminar classes	45hours
Independent work of a student under the guidance of a teacher	35hours
Independent work of the student	70hours
Total	150hours
Knowledge control form	Examination

Short description of discipline

The discipline is intended for the development of the language personality of the student, who is able to carry out cognitive and communicative activities in Russian in the areas of interpersonal, social, professional, intercultural communication; for teaching students practical mastery of the Russian language in various areas of communication and various situations, mastering the specifics of functional semantic types and genres of functional styles of speech, enriching the vocabulary with special vocabulary, forming and improving the skills of monologue and dialogic speech.

Purpose of studying of the discipline

The purpose of the program is to form the socio-humanitarian worldview of students in the context of the national idea of spiritual modernization, involving the development on the basis of national consciousness and cultural code of the qualities of internationalism, tolerant attitude to world cultures and languages as translators of world-class knowledge, advanced modern technologies, the use and transfer of which can ensure the modernization of the country and personal career growth of future specialists.

Learning Outcomes

ON1 Demonstrate socio-cultural, economic, legal, environmental knowledge, communication skills, apply information technologies taking into account current trends in the development of society.

Prerequisites

School course

Postrequisites

Russian language

Physical Culture

Discipline cycle	General educational disciplines
Discipline component	Compulsory component
SubjectID	29329 (3022499)

Course	1
Term	1
Credits count	2
Practical and seminar classes	60hours
Total	60hours
Knowledge control form	Examination

Short description of discipline
It provides for the joint cooperation of a teacher and a student in the process of physical education throughout the training in the context of the requirements for the level of mastering the discipline, preparing students for participation in mass sports competitions; forms motivational and value attitudes towards physical culture and the need for systematic physical exercises and sports; gives basic knowledge about the use of physical culture and sports in the development of vital physical qualities.

Purpose of studying of the discipline
The purpose of the program is the formation of social and personal competencies of students and the ability to purposefully use the means and methods of physical culture, ensuring the preservation, strengthening of health to prepare for professional activities; to the persistent transfer of physical exertion, neuropsychic stress and adverse factors in future work.

Learning Outcomes
ON1 Demonstrate socio-cultural, economic, legal, environmental knowledge, communication skills, apply information technologies taking into account current trends in the development of society.

Prerequisites
School course

Postrequisites
Physical Culture

Kazakh language

Discipline cycle	General educational disciplines
Discipline component	Compulsory component
SubjectID	29336 (3022493)
Course	1
Term	2
Credits count	5
Practical and seminar classes	45hours
Independent work of a student under the guidance of a teacher	35hours
Independent work of the student	70hours
Total	150hours
Knowledge control form	Examination

Short description of discipline
The discipline is aimed at expanding language literacy, free communication with the environment and mental and ideological skills of the student, understanding the role of language in the process of mastering world- class knowledge through the formation of a future specialist`s worldview based on national consciousness and cultural code, improving the knowledge of the state language by future specialists, increasing the scope of use of the Kazakh language by specialists.

Purpose of studying of the discipline
Ensuring high- quality mastery of the Kazakh language as a means of social, intercultural, professional communication through the formation of communicative competencies at all levels of language use.

Learning Outcomes
ON1 Demonstrate socio-cultural, economic, legal, environmental knowledge, communication skills, apply information technologies taking into account current trends in the development of society.

Prerequisites
Kazakh language

Postrequisites
Basic and profile disciplines of the EP

Foreign language

Discipline cycle	General educational disciplines
Discipline component	Compulsory component
SubjectID	29335 (3022491)
Course	1
Term	2
Credits count	5
Practical and seminar classes	45hours
Independent work of a student under the guidance of a teacher	35hours
Independent work of the student	70hours
Total	150hours
Knowledge control form	Examination

Short description of discipline
The content of the discipline «Foreign language» assumes the formation of students`linguo- cultural, socio- cultural, cognitive and

communicative competencies at B2 level. The discipline is aimed at deep and extended study of productive and receptive language material. As a result, the student must be able to understand all types of speech activity in accordance with the requirements of B2 level and master the subject content of the discipline and speech.

Purpose of studying of the discipline

Formation of linguo- culturological, socio- cultural, cognitive and communicative competence of students in the process of foreign language education at the B2 level, pan-European competence. Depending on the level of training, the student at the time of completing the course reaches the level B2 of the pan-European competence, if the language level of the student at the start is higher than the level B1 of the pan-European competence.

Learning Outcomes

ON1 Demonstrate socio-cultural, economic, legal, environmental knowledge, communication skills, apply information technologies taking into account current trends in the development of society.

Prerequisites

Foreign language

Postrequisites

Basic and profile disciplines of the EP

History of Kazakhstan

Discipline cycle	General educational disciplines
Discipline component	Compulsory component
SubjectID	29339 (3022580)
Course	1
Term	2
Credits count	5
Lections	30hours
Practical and seminar classes	15hours
Independent work of a student under the guidance of a teacher	35hours
Independent work of the student	70hours
Total	150hours
Knowledge control form	Qualification examination

Short description of discipline

The main stages of the history of Kazakhstan are studied with: nomadic statehood, Turkic civilization, the era of colonialism, the Soviet period, independence. The driving forces, trends, patterns of historical development are analyzed; problems: ethnogenesis of the Kazakh people, the formation of statehood, national liberation movements, demographic development. The skills of analyzing historical events and facts, working with historical literature are being formed.

Purpose of studying of the discipline

The purpose of the discipline is to provide objective knowledge about the main stages of the development of the history of Kazakhstan from ancient times to the present.

Learning Outcomes

ON1 Demonstrate socio-cultural, economic, legal, environmental knowledge, communication skills, apply information technologies taking into account current trends in the development of society.

Prerequisites

School course

Postrequisites

Philosophy

The module of socio-political knowledge (sociology, political science, cultural studies, psychology)

Discipline cycle	General educational disciplines
Discipline component	Compulsory component
SubjectID	29340 (3022582)
Course	1
Term	2
Credits count	8
Lections	30hours
Practical and seminar classes	45hours
Independent work of a student under the guidance of a teacher	55hours
Independent work of the student	110hours
Total	240hours
Knowledge control form	Examination

Short description of discipline

The module of socio-political knowledge involves the study of four scientific disciplines – sociology, political science, cultural studies, psychology, each of which has its own subject, terminology and research methods. Interactions between these scientific disciplines are carried out on the basis of the principles of information complementarity; integrativity; methodological integrity of research approaches of these disciplines; generality of the methodology of learning, result-oriented; unified system representation of the typology of learning

outcomes as formed abilities.

Purpose of studying of the discipline

Formation of social and humanitarian worldview of students in the context of solving the problems of modernization of public consciousness, defined by the state program "Looking into the Future: Modernization of Public Consciousness".

Learning Outcomes

ON1 Demonstrate socio-cultural, economic, legal, environmental knowledge, communication skills, apply information technologies taking into account current trends in the development of society.

Prerequisites

School course

Postrequisites

Philosophy

Russian language

Discipline cycle	General educational disciplines
Discipline component	Compulsory component
SubjectID	29337 (3022495)
Course	1
Term	2
Credits count	5
Practical and seminar classes	45hours
Independent work of a student under the guidance of a teacher	35hours
Independent work of the student	70hours
Total	150hours
Knowledge control form	Examination

Short description of discipline

The discipline is intended for the development of the language personality of the student, who is able to carry out cognitive and communicative activities in Russian in the areas of interpersonal, social, professional, intercultural communication; to teach the scientific style of speech as a language of specialty, the creation of secondary texts, the formation of skills for the production of oral and written speech in accordance with the communicative goal and the professional sphere of communication, instilling the skills of speech etiquette, business rhetoric.

Purpose of studying of the discipline

The purpose of the program is to form the socio-humanitarian worldview of students in the context of the national idea of spiritual modernization, involving the development on the basis of national consciousness and cultural code of the qualities of internationalism, tolerant attitude to world cultures and languages as translators of world-class knowledge, advanced modern technologies, the use and transfer of which can ensure the modernization of the country and personal career growth of future specialists.

Learning Outcomes

ON1 Demonstrate socio-cultural, economic, legal, environmental knowledge, communication skills, apply information technologies taking into account current trends in the development of society.

Prerequisites

Russian language

Postrequisites

Basic and profile disciplines of the EP

Physical Culture

Discipline cycle	General educational disciplines
Discipline component	Compulsory component
SubjectID	29338 (3022500)
Course	1
Term	2
Credits count	2
Practical and seminar classes	60hours
Total	60hours
Knowledge control form	Differentiated attestation

Short description of discipline

It provides for the joint cooperation of a teacher and a student in the process of physical education throughout the training in the context of the requirements for the level of mastering the discipline, the ability to exercise control and self-control in the process of classes, gaining knowledge on health promotion, hardening and increasing the body`s resistance to the effects of adverse factors of labor activity, mastering methods of selection of physical exercises and sports.

Purpose of studying of the discipline

The purpose of the program is the formation of social and personal competencies of students and the ability to purposefully use the means and methods of physical culture, ensuring the preservation, strengthening of health to prepare for professional activities; to the persistent transfer of physical exertion, neuropsychic stress and adverse factors in future work.

Learning Outcomes

ON1 Demonstrate socio-cultural, economic, legal, environmental knowledge, communication skills, apply information technologies taking into account current trends in the development of society.

Prerequisites

Physical Culture

Postrequisites
Physical Culture

Physical Culture

Discipline cycle	General educational disciplines
Discipline component	Compulsory component
SubjectID	29352 (3022576)
Course	2
Term	1
Credits count	2
Practical and seminar classes	60hours
Total	60hours
Knowledge control form	Examination

Short description of discipline
Provides for the joint cooperation of the teacher and the student in the process of physical education throughout the training in the context of the requirements for the level of mastering the discipline; increasing the level of physical fitness and developing physical qualities; mastering the technique of sports; education of discipline, collectivism, comradely mutual assistance; education of mental stability, development and improvement of basic motor qualities - endurance, strength, speed, dexterity, flexibility.

Purpose of studying of the discipline
The purpose of the program is the formation of social and personal competencies of students and the ability to purposefully use the means and methods of physical culture, ensuring the preservation, strengthening of health to prepare for professional activities; to the persistent transfer of physical exertion, neuropsychic stress and adverse factors in future work.

Learning Outcomes
ON1 Demonstrate socio-cultural, economic, legal, environmental knowledge, communication skills, apply information technologies taking into account current trends in the development of society.

Prerequisites
School course

Postrequisites
Physical Culture

World of Abai

Discipline cycle	Basic disciplines
Discipline component	University component
SubjectID	29364 (3022575)
Course	2
Term	1
Credits count	3
Lections	15hours
Practical and seminar classes	15hours
Independent work of a student under the guidance of a teacher	20hours
Independent work of the student	40hours
Total	90hours
Knowledge control form	Examination

Short description of discipline
The discipline is aimed at studying historical facts, the philosophical and artistic foundations of the works of Abay Kunanbaev, Shakarim Kudaiberdiev, which form worldview and aesthetic values, the student`s ability to express his opinion, practical skills and perception of such human qualities as morality, honesty, artistic character. The genius of the writers of Kazakh literature and the role of M. Auezov in the study and popularization of Abai`s heritage, the significance of his works for history, literature and science are determined.

Purpose of studying of the discipline
Formation of the meaning of philosophical and ideological being, understanding of the problems raised in the works of Abai Kunanbayuly, Shakarim Kudaiberdiuly, Mukhtar Auezov and application of the acquired knowledge in the practice of everyday life.

Learning Outcomes
ON1 Demonstrate socio-cultural, economic, legal, environmental knowledge, communication skills, apply information technologies taking into account current trends in the development of society.

Prerequisites
The module of socio-political knowledge (sociology, political science, cultural studies, psychology)

Postrequisites
Basic and profile disciplines of the EP

Information and communication technology

Discipline cycle	General educational disciplines
Discipline component	Compulsory component
SubjectID	29366 (3022583)
Course	2
Term	2
Credits count	5

Lections	15hours
Practical and seminar classes	15hours
Laboratory works	15hours
Independent work of a student under the guidance of a teacher	35hours
Independent work of the student	70hours
Total	150hours
Knowledge control form	Examination

Short description of discipline
The discipline is aimed at mastering the conceptual foundations of the architecture of computer systems, operating systems and networks by students; formation of the ability to critically understand the role and signifcance of modern information and communication technologies in the era of digital globalization, new "digital" thinking, knowledge about the concepts of developing network and web applications, skills in using modern information and communication technologies in various felds of professional activity, scientifc and practical work, for self-educational and other purposes.

Purpose of studying of the discipline
Formation of the ability to critically evaluate and analyze processes, methods of searching, storing and processing information, methods of collecting and transmitting information through digital technologies

Learning Outcomes
ON1 Demonstrate socio-cultural, economic, legal, environmental knowledge, communication skills, apply information technologies taking into account current trends in the development of society.

Prerequisites
School course

Postrequisites
Computer graphics are in a transport planning Machine graphic arts Fundamentals of computer modeling

Physical Culture

Discipline cycle	General educational disciplines
Discipline component	Compulsory component
SubjectID	29365 (3022501)
Course	2
Term	2
Credits count	2
Practical and seminar classes	60hours
Total	60hours
Knowledge control form	Differentiated attestation

Short description of discipline
Provides for the joint cooperation of the teacher and the student in the process of physical education throughout the training in the context of the requirements for the level of mastering the discipline; acquisition of versatile abilities and skills for the development of physical abilities, socio-cultural experience and socio-cultural values of physical culture and sports; development of communication skills, thinking, self-development, the formation of experience in the implementation of sports and recreational and training programs.

Purpose of studying of the discipline
The purpose of the program is the formation of social and personal competencies of students and the ability to purposefully use the means and methods of physical culture, ensuring the preservation, strengthening of health to prepare for professional activities; to the persistent transfer of physical exertion, neuropsychic stress and adverse factors in future work.

Learning Outcomes
ON1 Demonstrate socio-cultural, economic, legal, environmental knowledge, communication skills, apply information technologies taking into account current trends in the development of society.

Prerequisites
Physical Culture

Postrequisites
Physical Culture

Philosophy

Discipline cycle	General educational disciplines
Discipline component	Compulsory component
SubjectID	29377 (3022497)
Course	3
Term	1
Credits count	5
Lections	15hours
Practical and seminar classes	30hours
Independent work of a student under the guidance of a teacher	35hours
Independent work of the student	70hours
Total	150hours
Knowledge control form	Examination

Short description of discipline

The discipline is aimed at developing students` openness of consciousness, understanding their own national code and self-consciousness, spiritual modernization, competitiveness, realism and pragmatism, independent critical thinking, the cult of knowledge and education, a holistic view of philosophy as a special form of understanding the world, mastering key worldview concepts, as well as the development and strengthening of the values of tolerance, intercultural dialogue and a culture of peace.

Purpose of studying of the discipline

Formation in students of a holistic view of philosophy as a special form of knowledge of the world, its main sections, problems and methods of studying them in the context of future professional activities.

Learning Outcomes

ON1 Demonstrate socio-cultural, economic, legal, environmental knowledge, communication skills, apply information technologies taking into account current trends in the development of society.

Prerequisites

The module of socio-political knowledge (sociology, political science, cultural studies, psychology)

Postrequisites

Basic and profile disciplines of the EP

Module 2. Information technologies in transport

Computer graphics are in a transport planning

Discipline cycle	Basic disciplines
Discipline component	Electives
SubjectID	29384 (3022533)
Course	3
Term	1
Credits count	5
Lections	15hours
Practical and seminar classes	30hours
Independent work of a student under the guidance of a teacher	35hours
Independent work of the student	70hours
Total	150hours
Knowledge control form	Examination

Short description of discipline

The discipline studies preparation for working with AutoCAD and Kompas programs: hatching, entering point coordinates, building linear and nonlinear basic primitives, typing, including methods and tools for editing solid objects, building 2-dimensional and 3-dimensional objects in AutoCAD and Kompas, which will allow you to independently apply this knowledge in the future various fields of modern activity.

Purpose of studying of the discipline

To instill and consolidate the skills of performing various kinds of drawings in accordance with ESCD standards and to introduce modern methods of machine manufacturing (AutoCAD, Kompas Graph).

Learning Outcomes

ON2 Conducts the process of processing information on a personal computer, performs input and output of information from data carriers, communication channels, use the multimedia capabilities of a personal computer in work

Prerequisites

Information and communication technology

Postrequisites

Information support of the transportation process Intelligent systems of transport management Automated control systems of transportation process

Machine graphic arts

Discipline cycle	Basic disciplines
Discipline component	Electives
SubjectID	29385 (3022534)
Course	3
Term	1
Credits count	5
Lections	15hours
Practical and seminar classes	30hours
Independent work of a student under the guidance of a teacher	35hours
Independent work of the student	70hours
Total	150hours
Knowledge control form	Examination

Short description of discipline

The discipline studies the basic concepts for familiarization with the automated development of drawing works; information about a personal computer and the AutoCAD and Kompas software package; commands for controlling the main functions of AutoCAD and Kompas; creating a drawing, its boundaries; hatching, saving a drawing, sizing, drawing design commands, drawings, as well as the use of software in the design of technological and design documentation

Purpose of studying of the discipline

To instill and consolidate the skills of performing various kinds of drawings in accordance with ESCD standards and to introduce modern methods of machine manufacturing (AutoCAD, Compass Graph).

Learning Outcomes

ON2 Conducts the process of processing information on a personal computer, performs input and output of information from data carriers, communication channels, use the multimedia capabilities of a personal computer in work

Prerequisites

Information and communication technology

Postrequisites

Information support of the transportation process Intelligent systems of transport management Automated control systems of transportation process

Fundamentals of computer modeling

Discipline cycle	Basic disciplines
Discipline component	Electives
SubjectID	29386 (3022535)
Course	3
Term	1
Credits count	5
Lections	15hours
Practical and seminar classes	30hours
Independent work of a student under the guidance of a teacher	35hours
Independent work of the student	70hours
Total	150hours
Knowledge control form	Examination

Short description of discipline

The discipline studies the theory of system modeling, methods and principles of simulation and mathematical modeling of queuing systems, information flows, tools for project implementation, including working in the MathLab environment, working with files, editing documents, formatting objects, working with graphics, computing, data processing and statistics, methods of creating computer models, as well as programming in the MathLab environment for the purpose of conducting computer experiments

Purpose of studying of the discipline

Mastering the basics of modeling theory by students, acquiring skills in constructing mathematical models of various classes.

Learning Outcomes

ON2 Conducts the process of processing information on a personal computer, performs input and output of information from data carriers, communication channels, use the multimedia capabilities of a personal computer in work

Prerequisites

Information and communication technology

Postrequisites

Information support of the transportation process

Automated control systems of transportation process

Discipline cycle	Basic disciplines
Discipline component	Electives
SubjectID	29544 (3022541)
Course	3
Term	2
Credits count	5
Lections	15hours
Practical and seminar classes	30hours
Independent work of a student under the guidance of a teacher	35hours
Independent work of the student	70hours
Total	150hours
Knowledge control form	Examination

Short description of discipline

The discipline studies automated control systems, their role in the transportation process; information support in transport management; types and characteristics of communication systems in transport, the use of various communication systems in traffic management; the use of information technology in the organization of transportation, maintenance of information flows in transport systems, in the organization of the relationship with the global data transmission system; structure and levels of construction of automated control systems in the transportation process

Purpose of studying of the discipline

The purpose of this course is the acquisition by students of theoretical knowledge and practical skills in the field of effective use of automated control systems, as well as advanced technologies in technological processes in transport and in road traffic, ensuring savings of labor and energy resources, and traffic safety in various operating conditions.

Learning Outcomes

ON2 Conducts the process of processing information on a personal computer, performs input and output of information from data carriers, communication channels, use the multimedia capabilities of a personal computer in work

Prerequisites

Information and communication technology

Postrequisites

Final examination

Intelligent systems of transport management

Discipline cycle	Basic disciplines
Discipline component	Electives
SubjectID	29543 (3022540)
Course	3
Term	2
Credits count	5
Lections	15hours
Practical and seminar classes	30hours
Independent work of a student under the guidance of a teacher	35hours
Independent work of the student	70hours
Total	150hours
Knowledge control form	Examination

Short description of discipline

The discipline studies the principles of building and forming information flows; general principles of building intelligent transport systems; routing of various types of transport and monitoring its operation when using intelligent transport systems; design of information management systems; organization of information exchange between transport management facilities, as well as information technologies in the design of vehicles to ensure traffic safety, taking into account world experience usage

Purpose of studying of the discipline

The purpose of this course is the acquisition by students of theoretical knowledge and practical skills in the field of effective use of automated control systems, as well as advanced technologies in technological processes in transport and in road traffic, ensuring savings of labor and energy resources, and traffic safety in various operating conditions.

Learning Outcomes

ON2 Conducts the process of processing information on a personal computer, performs input and output of information from data carriers, communication channels, use the multimedia capabilities of a personal computer in work

Prerequisites

Information and communication technology

Postrequisites

Final examination

Information support of the transportation process

Discipline cycle	Basic disciplines
Discipline component	Electives
SubjectID	29542 (3022539)
Course	3
Term	2
Credits count	5
Lections	15hours
Practical and seminar classes	30hours
Independent work of a student under the guidance of a teacher	35hours
Independent work of the student	70hours
Total	150hours
Knowledge control form	Examination

Short description of discipline

The discipline studies the basic terms and concepts, classification and structure of information systems, modern problems of informatization in transport, automated enterprise management systems, concepts of informatization of transport and transport processes, information systems in transport management; data protection in electronic identification technologies; prospects for the development of new information technologies in transport, information systems in traffic management, ensuring traffic safety in different operating conditions

Purpose of studying of the discipline

The purpose of this course is the acquisition by students of theoretical knowledge and practical skills in the field of effective use of automated control systems, as well as advanced technologies in technological processes in transport and in road traffic, providing savings of labor and energy resources, and traffic safety in various operating conditions.

Learning Outcomes

ON2 Conducts the process of processing information on a personal computer, performs input and output of information from data carriers, communication channels, use the multimedia capabilities of a personal computer in work

Prerequisites

Information and communication technology

Postrequisites

Final examination

Module 3. Mathematical methods and models in logistics

Mathematics

Discipline cycle	Basic disciplines
Discipline component	University component
SubjectID	29334 (3022578)
Course	1
Term	1
Credits count	5
Lections	15hours
Practical and seminar classes	30hours
Independent work of a student under the guidance of a teacher	35hours
Independent work of the student	70hours
Total	150hours
Knowledge control form	Examination

Short description of discipline

The purpose of this course is to provide students with fundamental training in mathematics. The course is aimed at forming a sufficiently high culture of mathematical thinking among students and developing the ability to creatively approach problem solving. In addition to studying the fundamental foundations of higher mathematics (elements of analytical geometry, linear algebra, mathematical analysis, differential equations), the course assumes consideration of various applications of mathematics to solving production problems from the field of professional specialization.

Purpose of studying of the discipline

creation of the basis for the development of logical thinking and mathematical culture. Formation of basic knowledge and acquisition of basic skills of using mathematical apparatus for solving theoretical and applied problems, as well as the necessary level of mathematical training for mastering other applied disciplines studied within a specific profile; skills of working with special mathematical literature

Learning Outcomes

ON3 Use the basics of mathematical and economic knowledge to solve logistical problems

Prerequisites

School course

Postrequisites

Mathematical methods and models in logistics Mathematical methods of decision of transport tasks Mathematical modeling of economic processes and systems

Optimization methods and operations research

Discipline cycle	Basic disciplines
Discipline component	Electives
SubjectID	29551 (3022549)
Course	3
Term	2
Credits count	5
Lections	15hours
Practical and seminar classes	30hours
Independent work of a student under the guidance of a teacher	35hours
Independent work of the student	70hours
Total	150hours
Knowledge control form	Examination

Short description of discipline

The discipline studies the correct formulation and solution of linear programming problems, graphical methods for solving linear programming problems, the dual linear programming problem, the transport problem, including the economic and mathematical model of the transport problem and its solution by the simplex method, integer programming, multi– criteria optimization problems, function optimization methods, nonlinear programming, penalty methods, as well as improving the optimal plan transportation

Purpose of studying of the discipline

The purpose is to familiarize with the practical application of methods of the most effective management of various organizational (including economic) systems in the transport process

Learning Outcomes

ON3 Use the basics of mathematical and economic knowledge to solve logistical problems

Prerequisites

Cooperation of types of transport

Postrequisites

Assessment of the work and quality of transportation on transport Efficiency of road and transportation complex Quality assessment of freight and passenger transport

Mathematical methods and models in logistics

Discipline cycle	Basic disciplines
Discipline component	Electives
SubjectID	29545 (3022545)
Course	3

Term	2
Credits count	5
Lections	15hours
Practical and seminar classes	30hours
Independent work of a student under the guidance of a teacher	35hours
Independent work of the student	70hours
Total	150hours
Knowledge control form	Examination

Short description of discipline
The discipline studies the optimization of network graphs of projects, methods for optimizing flows on networks and graphs in logistics research; procedures for optimizing supply chains based on methods and models of graph theory, methods for solving models of transport problems, the method of potentials, methods of mathematical theory of inventory management, the basics of the simulation method in logistics applications, probability theory in logistics, as well as application of mathematical models in logistics tasks

Purpose of studying of the discipline
The purpose of studying the discipline is to form students` knowledge, skills and abilities in the application of mathematical methods and models in logistics.

Learning Outcomes
ON3 Use the basics of mathematical and economic knowledge to solve logistical problems

Prerequisites
Mathematics

Postrequisites
Tariffs in the logistics system Economy in transport Economic processes in transport

Mathematical methods of decision of transport tasks

Discipline cycle	Basic disciplines
Discipline component	Electives
SubjectID	29552 (3022546)
Course	3
Term	2
Credits count	5
Lections	15hours
Practical and seminar classes	30hours
Independent work of a student under the guidance of a teacher	35hours
Independent work of the student	70hours
Total	150hours
Knowledge control form	Examination

Short description of discipline
The discipline studies the basics of solving transport problems by the distribution method; the method of potentials; the method of the minimum element; planning of cargo transportation along delivery routes; the distribution problem and the assignment problem; the use of economic and mathematical methods and a personal computer in transportation; the study of loaded modes of transport from the point of view of transportation, having a systematic understanding of transport services and transportation in general

Purpose of studying of the discipline
The purpose of studying the discipline is to study methods of solving transport problems

Learning Outcomes
ON3 Use the basics of mathematical and economic knowledge to solve logistical problems

Prerequisites
Mathematics

Postrequisites
Tariffs in the logistics system Economy in transport Economic processes in transport

Mathematical modeling of economic processes and systems

Discipline cycle	Basic disciplines
Discipline component	Electives
SubjectID	29546 (3022547)
Course	3
Term	2
Credits count	5
Lections	15hours
Practical and seminar classes	30hours
Independent work of a student under the guidance of a teacher	35hours
Independent work of the student	70hours
Total	150hours
Knowledge control form	Examination

Short description of discipline

The discipline studies the elements of the national economy, being the most important tool for the scientific study of economic processes: the economy of the region, the interaction of systems, macro- and microeconomic models, the study of the creation of tools that subsidize the researcher in mathematical modeling of economic processes, the study of transport models and methods of solving transport problems, modeling in the development of economic systems, as well as the study of the main directions of analysis of economic systems and processes

Purpose of studying of the discipline

Mastering by students of modern practical technologies of computer modeling of economic systems necessary for understanding cause- and- effect relationships in economics, forecasting, planning, decision- making and modern tools designed for engineering calculations, and visualization of the data obtained.

Learning Outcomes

ON3 Use the basics of mathematical and economic knowledge to solve logistical problems

Prerequisites

Mathematics

Postrequisites

Tariffs in the logistics system Economy in transport Economic processes in transport

Optimization of transport logistics processes

Discipline cycle	Basic disciplines
Discipline component	Electives
SubjectID	29550 (3022548)
Course	3
Term	2
Credits count	5
Lections	15hours
Practical and seminar classes	30hours
Independent work of a student under the guidance of a teacher	35hours
Independent work of the student	70hours
Total	150hours
Knowledge control form	Examination

Short description of discipline

The discipline studies the essence and tasks of transport logistics: the main parameters affecting the optimization of logistics processes of transport activities, methods of optimizing transport, analysis of the organization of logistics processes of transport activities of enterprises of various types of transport, evaluation of the effectiveness of logistics processes of transport activities of enterprises, problems of organization of logistics processes of transport activities of enterprises, the use of economic and mathematical methods and personal computers in transportation organizations

Purpose of studying of the discipline

Formation of skills for future specialists to optimize logistics processes of transport

Learning Outcomes

ON3 Use the basics of mathematical and economic knowledge to solve logistical problems

Prerequisites

Cooperation of types of transport

Postrequisites

Assessment of the work and quality of transportation on transport Efficiency of road and transportation complex Quality assessment of freight and passenger transport

Optimization of transportation processes

Discipline cycle	Basic disciplines
Discipline component	Electives
SubjectID	29553 (3022550)
Course	3
Term	2
Credits count	5
Lections	15hours
Practical and seminar classes	30hours
Independent work of a student under the guidance of a teacher	35hours
Independent work of the student	70hours
Total	150hours
Knowledge control form	Examination

Short description of discipline

The discipline studies optimal planning of cargo transportation along delivery routes, calculation of delivery routes for the transportation of small-batch goods (the task of the minimum objective function), the need and ways to optimize resources, optimization of logistics costs, the use of economic and mathematical methods and personal computers in the organization of transportation, focusing on software products for optimization (Maxoptra, 1C TMS Logistics, 4logist, etc.)

Purpose of studying of the discipline

The objectives of the discipline: to train students in the field of optimization theory for solving engineering problems; to give an idea of the principles and methods of mathematical modeling of operations; to introduce the main types of problems of operations research and

methods of their solution for practical application.

Learning Outcomes

ON3 Use the basics of mathematical and economic knowledge to solve logistical problems

Prerequisites

Cooperation of types of transport

Postrequisites

Assessment of the work and quality of transportation on transport Efficiency of road and transportation complex Quality assessment of freight and passenger transport

Tariffs in the logistics system

Discipline cycle	Profiling discipline
Discipline component	Electives
SubjectID	29622 (3022566)
Course	4
Term	1
Credits count	5
Lections	15hours
Practical and seminar classes	30hours
Independent work of a student under the guidance of a teacher	35hours
Independent work of the student	70hours
Total	150hours
Knowledge control form	Examination

Short description of discipline

The discipline studies tariffs and pricing in transport logistics: classification of transport tariffs and rules for their application, transport costs, cost of transportation, tariffs for various types of transport, tariff plans, a single transit tariff, as well as accounting, dynamics and adjustment of transport tariffs in the activities of transport enterprises, methods of calculating transport tariffs, including indicators that determine the size transportation fees

Purpose of studying of the discipline

The aim is to form students` theoretical knowledge and practical skills in the field of tariff formation, management of material and financial flows.

Learning Outcomes

ON3 Use the basics of mathematical and economic knowledge to solve logistical problems

Prerequisites

Mathematical methods of decision of transport tasks Mathematical modeling of economic processes and systems Optimization methods and operations research

Postrequisites

Final examination

Economy in transport

Discipline cycle	Profiling discipline
Discipline component	Electives
SubjectID	33386 (3022567)
Course	4
Term	1
Credits count	5
Lections	15hours
Practical and seminar classes	30hours
Independent work of a student under the guidance of a teacher	35hours
Independent work of the student	70hours
Total	150hours
Knowledge control form	Examination

Short description of discipline

The discipline studies the economic laws of the market in the field of transport services that contribute to the formation of economic thinking, tariffs and pricing in transport logistics: classification of transport tariffs, tariffs for various types of transport, cost of transportation, as well as accounting and methods of minimizing transport costs; dynamics and adjustment of transport tariffs in the activities of transport enterprises, including the calculation of tariff tables

Purpose of studying of the discipline

The aim is to provide students with knowledge and skills that allow them to structure and solve the economic problems of transport enterprises and, thus, ensure their competitiveness in the transport services market.

Learning Outcomes

ON3 Use the basics of mathematical and economic knowledge to solve logistical problems

Prerequisites

Mathematical methods and models in logistics Mathematical methods of decision of transport tasks Mathematical modeling of economic processes and systems

Postrequisites

Final examination

Economic processes in transport

Discipline cycle	Profiling discipline
Discipline component	Electives
SubjectID	29621 (3022568)
Course	4
Term	1
Credits count	5
Lections	15hours
Practical and seminar classes	30hours
Independent work of a student under the guidance of a teacher	35hours
Independent work of the student	70hours
Total	150hours
Knowledge control form	Examination

Short description of discipline
The discipline studies the importance of transport in the system of public production and economic problems of transport of the Republic of Kazakhstan in the conditions of the formation of a market economy, the basic principles and features of transport management: planning of investments, working capital and logistics in transport, operating costs of transport, transportation costs., economic analysis of production and financial activities, as well as the activities of enterprises transport in a market economy

Purpose of studying of the discipline
The aim is to form students` theoretical knowledge and practical skills in the field of economic processes in transport

Learning Outcomes
ON3 Use the basics of mathematical and economic knowledge to solve logistical problems

Prerequisites
Mathematical methods and models in logistics Mathematical methods of decision of transport tasks Mathematical modeling of economic processes and systems

Postrequisites
Final examination

Module 4. Introduction to the logistics profession

Introduction to the logistics profession

Discipline cycle	Basic disciplines
Discipline component	University component
SubjectID	29333 (3022577)
Course	1
Term	1
Credits count	5
Lections	15hours
Practical and seminar classes	30hours
Independent work of a student under the guidance of a teacher	35hours
Independent work of the student	70hours
Total	150hours
Knowledge control form	Examination

Short description of discipline
The discipline studies the history of logistics development, the basics of commercial and warehouse activities, the main logistics functions and functional areas, the classification of logistics systems, the concept of logistics, the principles of logistics, logistics management facilities, types of logistics, the functions of a logistics manager in modern companies, modern market needs for logisticians of different specializations, trends in logistics development, features of the logistics profession, job descriptions responsibilities, as well as responsibilities.

Purpose of studying of the discipline
Obtaining students` initial knowledge of logistics, to show the importance of logistics in the national economy and the company as a whole

Learning Outcomes
ON4 Determine the type and purpose of the cargo, establishes a relationship with the modes of transport for transportation

Prerequisites
School course

Postrequisites
Organization of transportations and management by motion

Transport geography

Discipline cycle	Basic disciplines
Discipline component	University component
SubjectID	29331 (3022502)
Course	1
Term	1

Credits count	3
Lections	15hours
Practical and seminar classes	15hours
Independent work of a student under the guidance of a teacher	20hours
Independent work of the student	40hours
Total	90hours
Knowledge control form	Examination

Short description of discipline
The discipline studies the basic concepts of transport geography, the interaction of transport and branches of the national economy of the country, the geography of the main modes of transport, the economic and geographical characteristics of transport of the economic regions of the Republic of Kazakhstan, as well as transport itself and the economic zoning of the country. The influence of economic and geographical location on the development of various modes of transport. Problems of development of the transport system of the region in modern and promising conditions. The world transport system.

Purpose of studying of the discipline
The purpose of studying the discipline is to create a system of knowledge about transport as a branch of material production and the most important component of infrastructure.

Learning Outcomes

Prerequisites
School course

Postrequisites
Flat rate of transport The General course of the Railways History of transport development

Educational practice

Discipline cycle	Basic disciplines
Discipline component	University component
SubjectID	29341 (3022503)
Course	1
Term	2
Credits count	2
Study practics	60hours
Total	60hours
Knowledge control form	Total mark on practice

Short description of discipline
The educational practice combines theoretical knowledge and practical skills acquired during the training period, allows to expand opportunities in preparing students for the wide use of knowledge in practice about technologies and the organization of all types of transportation in professional activities in the future, gives the opportunity to develop and deepen knowledge, skills and abilities in the field of relevant disciplines and navigate in the conditions of technological changes, common in professional activities

Purpose of studying of the discipline
The purpose of the training practice is the development of general cultural competencies of students, the acquisition of primary professional competencies by students, the acquisition of the first skills of research activity, business correspondence skills, the acquisition of practical skills and work skills in accordance with the educational program:
- general familiarization with the main objects, methods and principles of work of enterprises and organizations providing transportation services;
- understand the current state and prospects of development of transport organizations;
- use computer methods of searching, collecting, storing and processing information;
- to get acquainted with the technical and regulatory documentation of transport enterprises, the rules of registration of itinerary sheets, cargo maps, waybills, etc.;
- consolidation of experience and skills in organizational, technical and administrative management of production;
-acquisition and consolidation of experience in the analysis of production processes.

Learning Outcomes
ON4 Determine the type and purpose of the cargo, establishes a relationship with the modes of transport for transportation

Prerequisites
Introduction to the logistics profession

Postrequisites
Production practice 1

Study of loads

Discipline cycle	Basic disciplines
Discipline component	University component
SubjectID	29357 (3022506)
Course	2
Term	1
Credits count	5
Lections	15hours
Practical and seminar classes	30hours
Independent work of a student under the guidance of a teacher	35hours

Independent work of the student	70hours
Total	150hours
Knowledge control form	Examination

Short description of discipline
The discipline studies definitions, types and classes of goods; properties, nomenclature, volume and mass characteristics of goods; structure, types and purpose of containers and packaging materials; labeling of goods; regulatory and technical documentation for the production of containers; international and republican standardization of transport containers, unification of transport containers, as well as the definition of special conditions of transportation and fastening of goods with the use of technical means for loading and unloading operations

Purpose of studying of the discipline
The purpose of studying the discipline "Cargo Science" is to study the specific properties and volume-mass characteristics of cargo, as well as the principles of their placement and attachment to the rolling stock.

Learning Outcomes
ON4 Determine the type and purpose of the cargo, establishes a relationship with the modes of transport for transportation

Prerequisites
Transport geography

Postrequisites
Packaging and packaging technology

History of transport development

Discipline cycle	Basic disciplines
Discipline component	Electives
SubjectID	29360 (3022520)
Course	2
Term	1
Credits count	5
Lections	30hours
Practical and seminar classes	15hours
Independent work of a student under the guidance of a teacher	35hours
Independent work of the student	70hours
Total	150hours
Knowledge control form	Examination

Short description of discipline
The discipline studies the historical overview of the emergence and development by means of transport, specific features, characteristics of all types of transport, its importance for the socio-economic development of the Republic of Kazakhstan as a branch of production, as well as at the main stages of the development of the state, various ways of developing transportation in different countries, with an emphasis on urban transport, as well as new modes of transport and achievements scientific and technological progress in the field of transport.

Purpose of studying of the discipline
Students receive comprehensive knowledge on the history of transport development, as well as freight and passenger transportation by means of transport. In the process of studying the discipline, the student must distinguish between types of transport services and know the history of their development. Have an idea of the different ways of development of transportation in different countries and new modes of transport.

Learning Outcomes
ON4 Determine the type and purpose of the cargo, establishes a relationship with the modes of transport for transportation

Prerequisites
Transport geography

Postrequisites
Cooperation of types of transport

The General course of the Railways

Discipline cycle	Basic disciplines
Discipline component	Electives
SubjectID	29359 (3022519)
Course	2
Term	1
Credits count	5
Lections	30hours
Practical and seminar classes	15hours
Independent work of a student under the guidance of a teacher	35hours
Independent work of the student	70hours
Total	150hours
Knowledge control form	Examination

Short description of discipline
The discipline studies railway transport, tracks and track facilities, the plan and profile of the track, the structure of the roadbed and artificial structures, the upper structure of the track and the lower; dimensions; connections and intersections of tracks, rolling stock of

railways, the construction and use of signaling devices, communications and automated systems, electrification, as well as types of stations depending on works performed; organization of train traffic and railway transportation

Purpose of studying of the discipline

The purpose of studying the discipline "General Course of Railways" is to form students` skills and abilities to analyze the work of the railway, to know the upper and lower structure of the track, the structure of the roadbed, to study the types of rolling stock, the work of traction rolling stock, electrification of railway tracks, to distinguish the types of stations depending on the work performed, to study the dimensions.

Learning Outcomes

ON4 Determine the type and purpose of the cargo, establishes a relationship with the modes of transport for transportation

Prerequisites

Transport geography

Postrequisites

Cooperation of types of transport

Flat rate of transport

Discipline cycle	Basic disciplines
Discipline component	Electives
SubjectID	29358 (3022518)
Course	2
Term	1
Credits count	5
Lections	30hours
Practical and seminar classes	15hours
Independent work of a student under the guidance of a teacher	35hours
Independent work of the student	70hours
Total	150hours
Knowledge control form	Examination

Short description of discipline

The discipline studies definitions that provide a comprehensive understanding of transport and consistency; terms related to the transport system in its current state, the role and meaning of modes of transport, types of transportation organization and features of various modes of transport included in the transport system, the main performance indicators, characteristics, problems and forms of interaction of various types of transport, taking into account the criteria for choosing types transport

Purpose of studying of the discipline

The purpose of teaching the discipline "General Course of Transport" is to form students` appropriate worldview and knowledge in the field of transportation, providing a comprehensive understanding of transport, the system, the importance and role of transport in modern society, modes of transport and their interrelationships, as well as operating conditions.

Learning Outcomes

ON4 Determine the type and purpose of the cargo, establishes a relationship with the modes of transport for transportation

Prerequisites

Transport geography

Postrequisites

Cooperation of types of transport

Packaging and packaging technology

Discipline cycle	Basic disciplines
Discipline component	University component
SubjectID	29367 (3022507)
Course	2
Term	2
Credits count	5
Lections	15hours
Practical and seminar classes	30hours
Independent work of a student under the guidance of a teacher	35hours
Independent work of the student	70hours
Total	150hours
Knowledge control form	Examination

Short description of discipline

The discipline studies the concept, types of containers and packaging, their classification and functions of the materials used; the structure and properties of materials, their technological and functional characteristics, including the design of containers and packaging; the definition of general requirements for transport labeling.

Purpose of studying of the discipline

The study of this discipline is aimed at students` research of the functions of containers and packaging as a technical and aesthetic means in the design of goods of different groups, familiarization with the main technological features in the design of containers and packaging.

Learning Outcomes

ON4 Determine the type and purpose of the cargo, establishes a relationship with the modes of transport for transportation

Prerequisites
Study of loads
Postrequisites
Rules for the carriage of goods and passengers Freight transportations Passenger transportations

Module 5.Organization and management of transportation

Bases of freight and commercial work

Discipline cycle	Basic disciplines
Discipline component	University component
SubjectID	29356 (3022505)
Course	2
Term	1
Credits count	5
Lections	15hours
Practical and seminar classes	30hours
Independent work of a student under the guidance of a teacher	35hours
Independent work of the student	70hours
Total	150hours
Knowledge control form	Examination

Short description of discipline
The discipline studies international transport documentation, as well as the organizational structure of cargo and commercial work management in transport, including types of messages and classification of cargo transportation; organization of receiving, loading, unloading and delivery of goods; transport and shipping documents.
Purpose of studying of the discipline
The study of the course "Organization of cargo and commercial work" by students is necessary to gain knowledge in the field of cargo and commercial work in the conditions of the complex, continuous and dynamic nature of the work of the transport complex, requiring the coordinated functioning of different modes of transport.
Learning Outcomes
ON5 Simulate production processes in transport to improve the productivity of transport and the quality of work in the organization of traffic
Prerequisites
Transport geography
Postrequisites
Organization of transport and logistics activities Transport- logistic infrastructure Logistic of the system of international transport processes

Organization of transportations and management by motion

Discipline cycle	Basic disciplines
Discipline component	University component
SubjectID	29354 (3022504)
Course	2
Term	1
Credits count	5
Lections	15hours
Practical and seminar classes	30hours
Independent work of a student under the guidance of a teacher	35hours
Independent work of the student	70hours
Total	150hours
Knowledge control form	Examination

Short description of discipline
The discipline studies the organization of the work of hub transport, the organization of the movement of cars and trains, traffic management, as well as the features of the organization of traffic in order to fully meet the needs of transport to solve the problem of effective development of the capacity and carrying capacity of the transport network to the best traffic management system, flow management based on the principles of logistics and research of transport operations to solve the problem of transport processes
Purpose of studying of the discipline
The study of the course "Organization of transportation and traffic management" by students is necessary for them to gain knowledge in the field of effective use of technical equipment of transport, taking into account the volume of work, the ability to solve issues of development of its technical means, both in the conditions of current operation, and in the near and long term; to acquire the ability to effectively organize on the basis of modern management and marketing the work of transport facilities and the organization of movement of transport units; to provide an optimal cargo flow management system, on the basis of logistics principles and research of transport operations, to solve the issues of the transportation process; in order to fully satisfy the transportation requests, to solve the issues of effective development of the capacity and carrying capacity of transport networks; to systematically solve the issues of full and high-quality satisfaction of passengers during their transportation; to make calculations on the effective use of technical means; analyze the work carried out on transport, draw reasonable conclusions and suggestions from this in order to improve the operation of transport facilities.

Learning Outcomes
ON5 Simulate production processes in transport to improve the productivity of transport and the quality of work in the organization of traffic
Prerequisites
Transport geography
Postrequisites
Organization of transport and logistics activities Transport- logistic infrastructure Logistic of the system of international transport processes

Logistic of the system of international transport processes

Discipline cycle	Basic disciplines
Discipline component	Electives
SubjectID	29372 (3022526)
Course	2
Term	2
Credits count	5
Lections	15hours
Practical and seminar classes	30hours
Independent work of a student under the guidance of a teacher	35hours
Independent work of the student	70hours
Total	150hours
Knowledge control form	Examination

Short description of discipline
The discipline studies the main elements of the logistics market of cargo transportation and forwarding services, including multimodal and intermodal technologies for organizing the system of cargo and goods movement along the international transport corridor; the essence, factors and organizational aspects of the development of the logistics infrastructure of international logistics and transport corridors; features of the international infrastructure of various modes of transport and supply chains, as well as customs logistics
Purpose of studying of the discipline
The purpose of studying the discipline is to master students with theoretical and practical knowledge and skills for the formation and management of the logistics system of the organization within the framework of international economic activity
Learning Outcomes
ON5 Simulate production processes in transport to improve the productivity of transport and the quality of work in the organization of traffic
Prerequisites
Organization of transportations and management by motion
Postrequisites
Cooperation of types of transport

Organization of transport and logistics activities

Discipline cycle	Basic disciplines
Discipline component	Electives
SubjectID	29370 (3022524)
Course	2
Term	2
Credits count	5
Lections	15hours
Practical and seminar classes	30hours
Independent work of a student under the guidance of a teacher	35hours
Independent work of the student	70hours
Total	150hours
Knowledge control form	Examination

Short description of discipline
The discipline studies definitions, concept, functions, essence, tasks, prerequisites and stages of logistics development; functional logistics relationship with finance, marketing and production planning; economic effect of logistics use; definition and types of material flow; logistics operations and logistics systems, properties of logistics systems; transport processes and logistics, solving transport problems, and also effective methods of managing the activities of logistics services
Purpose of studying of the discipline
The formation of students ` clear scientific ideas and skills in managing material flows, the study of methods of effective delivery of goods and passengers.
Learning Outcomes
ON5 Simulate production processes in transport to improve the productivity of transport and the quality of work in the organization of traffic
Prerequisites
Organization of transportations and management by motion
Postrequisites
Cooperation of types of transport

Production practice 1

Discipline cycle	Basic disciplines
Discipline component	University component
SubjectID	29368 (3022508)
Course	2
Term	2
Credits count	5
Study practics	150hours
Total	150hours
Knowledge control form	Total mark on practice

Short description of discipline

The first industrial practice familiarizes students with the upcoming work and allows them to consolidate their knowledge at a higher educational institution, mastering production experience, acquiring practical skills and competencies, studying the organization of the logistics process at the enterprise. The practice is based on the direct participation of students in the production process as understudies, observing the requirements of labor protection and internal regulations, which allows them to acquire professional skills

Purpose of studying of the discipline

The purpose of the practice is an in-depth study of the transportation process, the organization of traffic and operation of transport, consolidation of theoretical and practical knowledge gained by students in the study of General and special disciplines, the study of the duties of engineering and technical workers of enterprises, economic issues and issues of organization and production planning.

Learning Outcomes

ON5 Simulate production processes in transport to improve the productivity of transport and the quality of work in the organization of traffic

Prerequisites

Educational practice

Postrequisites

Production practice 2

Transport-logistic infrastructure

Discipline cycle	Basic disciplines
Discipline component	Electives
SubjectID	29371 (3022525)
Course	2
Term	2
Credits count	5
Lections	15hours
Practical and seminar classes	30hours
Independent work of a student under the guidance of a teacher	35hours
Independent work of the student	70hours
Total	150hours
Knowledge control form	Examination

Short description of discipline

The discipline studies operations related to the transportation of goods by various modes of transport: documentation of goods, loading, unloading and storage, terminal processing, provision and maintenance of vehicles for transportation, as well as its rational use; freight forwarding services in the organization and execution of which can be performed under concluded contracts with shippers (senders), consignees (recipients), infrastructure owners or carriers of third-party organizations

Purpose of studying of the discipline

The purpose of the discipline is to form students ` knowledge in the field of logistics infrastructure of the enterprise and the state, develop skills and abilities in solving problems to justify the use of various elements of logistics infrastructure in transport systems.

Learning Outcomes

ON5 Simulate production processes in transport to improve the productivity of transport and the quality of work in the organization of traffic

Prerequisites

Organization of transportations and management by motion

Postrequisites

Cooperation of types of transport

Cooperation of types of transport

Discipline cycle	Basic disciplines
Discipline component	University component
SubjectID	29378 (3022510)
Course	3
Term	1
Credits count	5
Lections	30hours
Practical and seminar classes	15hours

Independent work of a student under the guidance of a teacher	35hours
Independent work of the student	70hours
Total	150hours
Knowledge control form	Examination

Short description of discipline
Logistics and transport. Transport in the supply chain. Transport security. Unified transport system and the scope of different modes of transport. New and non-traditional modes of transport. Capacity of ETS elements. Transport nodes in the transportation process. Ways to improve the efficiency of interaction between modes of transport.

Purpose of studying of the discipline
The purpose of studying the discipline "Interaction of modes of transport" is to provide relevant and mandatory general transport training under the educational program, since a qualified specialist in modern conditions for high-quality and effective professional activity must have sufficient knowledge of the issues of related modes of transport and the conditions of their interaction in the country`s economy, including in the transportation process.

Learning Outcomes
ON5 Simulate production processes in transport to improve the productivity of transport and the quality of work in the organization of traffic

Prerequisites
Organization of transportations and management by motion

Postrequisites
Modern technologies of cargo and passenger delivery Modern logistics technologies for cargo and passenger delivery New technologies in transportation

Module 6. New technologies in transportation

Production practice 2

Discipline cycle	Basic disciplines
Discipline component	University component
SubjectID	29541 (3022512)
Course	3
Term	2
Credits count	5
Study practics	150hours
Total	150hours
Knowledge control form	Total mark on practice

Short description of discipline
The second industrial practice, the effectiveness of which is determined by its contribution to the formation of professional abilities of students, improves the quality of professional training. Students, observing the processes of planning and organizing the logistics process, studying the features of various logistics operations, registering the parameters of the company`s activities, studying the basic documentation, methods of evaluating the effectiveness and control of logistics operations, thereby create an information base for performing individual tasks.

Purpose of studying of the discipline
The purpose of the practice is an in-depth study of the transportation process, the organization of traffic and operation of transport, consolidation of theoretical and practical knowledge gained by students in the study of General and special disciplines, the study of the duties of engineering and technical workers of enterprises, economic issues and issues of organization and production planning.

Learning Outcomes
ON6 To make decisions on the choice of new technologies for cargo processing and passenger delivery based on the study and generalization of innovative approaches of world and domestic experience

Prerequisites
Production practice 1

Postrequisites
Pre-diploma practice Production practice 3

New technologies in transportation

Discipline cycle	Profiling discipline
Discipline component	Electives
SubjectID	29610 (3022544)
Course	3
Term	2
Credits count	5
Lections	15hours
Practical and seminar classes	30hours
Independent work of a student under the guidance of a teacher	35hours
Independent work of the student	70hours
Total	150hours
Knowledge control form	Examination

Short description of discipline

The discipline studies the historical aspects and properties of innovations in the transport sector, the increasing role in new technologies in the transportation process, the use of uniform transport documents, as well as trends in innovation in various sectors of transport; an economic and mathematical model for assessing the innovative potential of the transport industry and innovative transport technologies in the field of transportation, optimization of delivery and storage of goods, the use of unmanned technologies and augmented realities

Purpose of studying of the discipline

The aim is to study new technologies in transportation

Learning Outcomes

ON6 To make decisions on the choice of new technologies for cargo processing and passenger delivery based on the study and generalization of innovative approaches of world and domestic experience

Prerequisites

Rules for the carriage of goods and passengers Freight transportations Passenger transportations

Postrequisites

Innovative technologies of terminal cargo processing Terminal transportation technologies Modern technologies and devices for optimizing terminal activity

Modern logistics technologies for cargo and passenger delivery

Discipline cycle	Profiling discipline
Discipline component	Electives
SubjectID	29607 (3022543)
Course	3
Term	2
Credits count	5
Lections	15hours
Practical and seminar classes	30hours
Independent work of a student under the guidance of a teacher	35hours
Independent work of the student	70hours
Total	150hours
Knowledge control form	Examination

Short description of discipline

The discipline studies modern logistics technologies for cargo and passenger delivery, including the basic principles of transportation process technology, modal transportation, terminal transportation, improvement of transportation process technology, selection of the optimal method of cargo and passenger delivery in multimodal transportation, concepts, principles, structure and types of modern transport and technological systems for cargo and passenger delivery, taking into account world experience in application of modern technologies

Purpose of studying of the discipline

The aim is to consider the types of transport technologies, methods of cargo transportation and the division of the transport process into its constituent operations, how to optimize the work of transport engaged in transportation within the framework of improving logistics.

Learning Outcomes

ON6 To make decisions on the choice of new technologies for cargo processing and passenger delivery based on the study and generalization of innovative approaches of world and domestic experience

Prerequisites

Rules for the carriage of goods and passengers Freight transportations Passenger transportations

Postrequisites

Innovative technologies of terminal cargo processing Terminal transportation technologies Modern technologies and devices for optimizing terminal activity

Modern technologies of cargo and passenger delivery

Discipline cycle	Profiling discipline
Discipline component	Electives
SubjectID	29554 (3022542)
Course	3
Term	2
Credits count	5
Lections	15hours
Practical and seminar classes	30hours
Independent work of a student under the guidance of a teacher	35hours
Independent work of the student	70hours
Total	150hours
Knowledge control form	Examination

Short description of discipline

The discipline studies the types of transportation. Cargo, cargo and passenger transportation volumes, cargo turnover, cargo flow, passenger turnover, passenger traffic, technical and operational indicators of the use of vehicles for the transportation of goods and passengers, the organization of the movement of vehicles, modern technologies for the delivery of goods and passengers.

Purpose of studying of the discipline

The purpose is to consider modern technologies for the delivery of goods and passengers

Learning Outcomes

ON6 To make decisions on the choice of new technologies for cargo processing and passenger delivery based on the study and generalization of innovative approaches of world and domestic experience

Prerequisites

Rules for the carriage of goods and passengers Freight transportations Passenger transportations

Postrequisites

Innovative technologies of terminal cargo processing Terminal transportation technologies Modern technologies and devices for optimizing terminal activity

Innovative technologies of terminal cargo processing

Discipline cycle	Profiling discipline
Discipline component	Electives
SubjectID	29631 (3022557)
Course	4
Term	1
Credits count	5
Lections	15hours
Practical and seminar classes	30hours
Independent work of a student under the guidance of a teacher	35hours
Independent work of the student	70hours
Total	150hours
Knowledge control form	Examination

Short description of discipline

The discipline studies the general principles of terminal transportation technology: classification of terminals and their functions, factors of terminal competitiveness, road terminals, intermodal terminals, logistics centers, transport performance indicators for continuous and terminal transportation systems, calculation of technical and economic performance indicators of terminal systems and adjustment by the number of terminals, compilation of tables of transportation routes between cargo senders, terminals and recipients

Purpose of studying of the discipline

The purpose of studying the discipline is to familiarize with the terminal technology of cargo handling

Learning Outcomes

ON6 To make decisions on the choice of new technologies for cargo processing and passenger delivery based on the study and generalization of innovative approaches of world and domestic experience

Prerequisites

Modern technologies of cargo and passenger delivery Modern logistics technologies for cargo and passenger delivery New technologies in transportation

Postrequisites

Final examination

Modern technologies and devices for optimizing terminal activity

Discipline cycle	Profiling discipline
Discipline component	Electives
SubjectID	29629 (3022559)
Course	4
Term	1
Credits count	5
Lections	15hours
Practical and seminar classes	30hours
Independent work of a student under the guidance of a teacher	35hours
Independent work of the student	70hours
Total	150hours
Knowledge control form	Examination

Short description of discipline

The discipline studies the main provisions on the operation of terminals: the goals and objectives of terminal technology, definitions, general principles of terminal transportation technology, classification, aspects of terminal competition, terminals of road transport, intermodal terminals, logistics centers, automated container terminal management systems, applied modern technologies and devices of terminal activity, as well as methods of application of solutions that are aimed at to improve the transportation of containers between the operating areas of the terminal

Purpose of studying of the discipline

The purpose of the study: to familiarize future specialists with modern technologies and methods of optimizing terminal cargo processing; to study the types and methods of forming terminal systems and calculating their parameters.

Learning Outcomes

ON6 To make decisions on the choice of new technologies for cargo processing and passenger delivery based on the study and generalization of innovative approaches of world and domestic experience

Prerequisites

Modern technologies of cargo and passenger delivery Modern logistics technologies for cargo and passenger delivery New technologies in transportation

Postrequisites

Final examination

Terminal transportation technologies

Discipline cycle	Profiling discipline
Discipline component	Electives
SubjectID	29630 (3022558)
Course	4
Term	1
Credits count	5
Lections	15hours
Practical and seminar classes	30hours
Independent work of a student under the guidance of a teacher	35hours
Independent work of the student	70hours
Total	150hours
Knowledge control form	Examination

Short description of discipline

The discipline studies the basic concepts, definitions, goals and objectives of terminal technology, general principles of terminal transportation technology, classification of terminals and their functions, road terminals, intermodal terminals, intermodal terminal operators, efficiency of terminal cargo transportation, principles of construction and operation of terminal systems, logistics concepts of terminal transportation management, as well as prospects for the development of terminal systems in The Republic of Kazakhstan

Purpose of studying of the discipline

The purpose of mastering the discipline is the formation of students` competencies in the field of organizing the implementation of a complex of services for the transport services of shippers and consignees in the transportation of goods, including perishable, based on the principles of logistics, taking into account the effective and rational interaction of modes of transport that make up a single transport system, as well as preparation for conducting organizational and managerial activities in the field of organization of functioning

Learning Outcomes

ON6 To make decisions on the choice of new technologies for cargo processing and passenger delivery based on the study and generalization of innovative approaches of world and domestic experience

Prerequisites

Modern technologies of cargo and passenger delivery Modern logistics technologies for cargo and passenger delivery New technologies in transportation

Postrequisites

Final examination

Module 7. Operation of rolling stock

Organization and mechanization of loading and unloading operations

Discipline cycle	Basic disciplines
Discipline component	University component
SubjectID	29369 (3022509)
Course	2
Term	2
Credits count	5
Lections	30hours
Practical and seminar classes	15hours
Independent work of a student under the guidance of a teacher	35hours
Independent work of the student	70hours
Total	150hours
Knowledge control form	Examination

Short description of discipline

The discipline studies the basic rules of functioning of transport and cargo systems, elements, mechanization and basics of organization of loading and unloading operations; loading and unloading points and warehouses; general information about cargo handling devices and means, loading and unloading mechanisms, modern loading and unloading machines, systems and equipment, as well as ways to determine the indicators of the choice of types of technologies when design of complex automation and mechanization of warehouse operations and loading and unloading operations

Purpose of studying of the discipline

The purpose of studying the discipline "Organization and mechanization of loading and unloading operations" is to study modern loading and unloading machines, equipment, pneumatic, hydraulic and suspended transport, car and wagon dumpers, the theory of their calculation, the definition of the main indicators for the selection of types of technology in the design of complex mechanization and automation of loading and unloading operations and warehouse operations. Highly efficient technological processes with the main cargoes transported by railways are being studied, as well as ways of transshipment of these cargoes from narrow gauge to wide gauge, from railway to water and road transport and back.

Learning Outcomes

ON7 To make decisions on the maintenance of the transportation process and operation of transport, taking into account the effective use of rolling stock

Prerequisites

Study of loads

Postrequisites

Modern technologies of cargo and passenger delivery Modern logistics technologies for cargo and passenger delivery New technologies in transportation

Specialized rolling stock

Discipline cycle	Basic disciplines
Discipline component	University component
SubjectID	29379 (3022511)
Course	3
Term	1
Credits count	5
Lections	30hours
Practical and seminar classes	15hours
Independent work of a student under the guidance of a teacher	35hours
Independent work of the student	70hours
Total	150hours
Knowledge control form	Examination

Short description of discipline

The discipline studies specialized rolling stock, its design and technical condition, operational properties, separation of rolling stock by purpose and patency, as well as the main differences between general-purpose rolling stock from specialized and special rolling stock; the nomenclature of goods transported by specialized rolling stock, types and methods of maintenance and repair, taking into account the safety of rolling stock

Purpose of studying of the discipline

The purpose of this course is to consolidate the knowledge of specialized rolling stock, prospects for the development of transport, trends in the operation of vehicles.

Learning Outcomes

ON7 To make decisions on the maintenance of the transportation process and operation of transport, taking into account the effective use of rolling stock

Prerequisites

Flat rate of transport The General course of the Railways History of transport development

Postrequisites

Operation and maintenance of rolling stock Technical operation of transport Basics of ergonomics and design of transport equipment

Basics of ergonomics and design of transport equipment

Discipline cycle	Profiling discipline
Discipline component	Electives
SubjectID	29626 (3022562)
Course	4
Term	1
Credits count	5
Lections	15hours
Practical and seminar classes	30hours
Independent work of a student under the guidance of a teacher	35hours
Independent work of the student	70hours
Total	150hours
Knowledge control form	Examination

Short description of discipline

The discipline studies ergonomics, its main tasks, safety, basic concepts and terms, form and content, definitions, comfort, design, methods and techniques of artistic construction in engineering, as well as the design of elements of load-bearing structures of transport equipment and bodywork, controls, the basics of the layout of the driver`s workplace in the cab, passenger seats, taking into account the comfort, visibility and aerodynamics of the body shape , taking into account the requirements of passive and active safety

Purpose of studying of the discipline

The aim is to form students` knowledge that provides a systematic approach to the design of transport

Learning Outcomes

ON7 To make decisions on the maintenance of the transportation process and operation of transport, taking into account the effective use of rolling stock

Prerequisites

Specialized rolling stock

Postrequisites

Final examination

Technical operation of transport

Discipline cycle	Profiling discipline
Discipline component	Electives

SubjectID	29627 (3022561)
Course	4
Term	1
Credits count	5
Lections	15hours
Practical and seminar classes	30hours
Independent work of a student under the guidance of a teacher	35hours
Independent work of the student	70hours
Total	150hours
Knowledge control form	Examination

Short description of discipline
The discipline studies the basics of ensuring the operability of transport: methods for determining the standards of technical operation of transport, the main patterns of changes in technical condition, information support of operability and diagnostics of transport, general characteristics of technological processes for ensuring the operability of transport and complex indicators for evaluating the effectiveness of technical operation of transport, factors affecting the technical condition of cars, as well as the main indicators of technical operation

Purpose of studying of the discipline
The aim is to form students` ideas, knowledge and skills in the field of technical operation of transport

Learning Outcomes
ON7 To make decisions on the maintenance of the transportation process and operation of transport, taking into account the effective use of rolling stock

Prerequisites
Specialized rolling stock

Postrequisites
Final examination

Operation and maintenance of rolling stock

Discipline cycle	Profiling discipline
Discipline component	Electives
SubjectID	29628 (3022560)
Course	4
Term	1
Credits count	5
Lections	15hours
Practical and seminar classes	30hours
Independent work of a student under the guidance of a teacher	35hours
Independent work of the student	70hours
Total	150hours
Knowledge control form	Examination

Short description of discipline
The discipline studies technical and organizational measures aimed at maintaining the serviceable technical condition of rolling stock during operation between planned types of routine repairs: the work complexes performed to ensure the operability of all components and equipment, fire safety and traffic safety, the order of maintenance and repair of rolling stock, as well as the proper sanitary and hygienic condition of vehicles, including the use of by appointment, transportation, storage

Purpose of studying of the discipline
The aim is to form students` ideas, knowledge and skills in the field of operation and maintenance of rolling stock

Learning Outcomes
ON7 To make decisions on the maintenance of the transportation process and operation of transport, taking into account the effective use of rolling stock

Prerequisites
Specialized rolling stock

Postrequisites
Final examination

Module 8. Transport services

Rules for the carriage of goods and passengers

Discipline cycle	Basic disciplines
Discipline component	Electives
SubjectID	29381 (3022530)
Course	3
Term	1
Credits count	5
Lections	15hours
Practical and seminar classes	30hours

Independent work of a student under the guidance of a teacher	35hours
Independent work of the student	70hours
Total	150hours
Knowledge control form	Examination

Short description of discipline
The discipline studies the basic rules of cargo and passenger transportation, full and timely satisfaction of the needs of the national economy and the country in the transportation of goods and passengers with the lowest transport costs, rational distribution of cargo and passenger transportation by various modes of transport, as well as the interaction of modes of transport during the seasons and the maximum reduction of uneven transportation taking into account seasonal consumption of transportation services

Purpose of studying of the discipline
To give students a set of knowledge, skills and abilities on the basics and features of planning, methodology and organization according to the rules of passenger and cargo transportation

Learning Outcomes
ON8 Analyze and process information, technical data, indicators and performance of transport systems

Prerequisites
Organization of transportations and management by motion

Postrequisites
Modern technologies of cargo and passenger delivery Modern logistics technologies for cargo and passenger delivery New technologies in transportation

Freight transportations

Discipline cycle	Basic disciplines
Discipline component	Electives
SubjectID	29382 (3022531)
Course	3
Term	1
Credits count	5
Lections	15hours
Practical and seminar classes	30hours
Independent work of a student under the guidance of a teacher	35hours
Independent work of the student	70hours
Total	150hours
Knowledge control form	Examination

Short description of discipline
The discipline studies the issues of the specifics of cargo transportation conditions, the guarantee of the integrity of cargo during transportation, loading and unloading and storage, transportation safety, technical and operational indicators, optimization of the operation of vehicles, as well as rational loading of rolling stock and warehouses, their effective use, including ensuring the safety of transported goods at all stages of the transportation process, taking into account for international transportation

Purpose of studying of the discipline
The purpose of teaching the discipline is to study the theoretical foundations and methods of organizing cargo delivery, acquiring practical skills in planning and managing the transport process.

Learning Outcomes
ON8 Analyze and process information, technical data, indicators and performance of transport systems

Prerequisites
Organization of transportations and management by motion

Postrequisites
Modern technologies of cargo and passenger delivery Modern logistics technologies for cargo and passenger delivery New technologies in transportation

Passenger transportations

Discipline cycle	Basic disciplines
Discipline component	Electives
SubjectID	29383 (3022532)
Course	3
Term	1
Credits count	5
Lections	15hours
Practical and seminar classes	30hours
Independent work of a student under the guidance of a teacher	35hours
Independent work of the student	70hours
Total	150hours
Knowledge control form	Examination

Short description of discipline
The discipline studies the main provisions related to the transportation of passengers, baggage, the maintenance standards of ticket offices, auto, railway, air terminals, forecourts and the requirements imposed on them; reference and information services, the

technological process of the station, the organization of passenger traffic and cultural and consumer services of passengers are studied, the basic concepts and provisions are highlighted international passenger transportation by type of transport

Purpose of studying of the discipline

The purpose of teaching the discipline is to study the theoretical foundations and methods of organizing the delivery of passengers, to acquire practical skills in planning and managing the transport process.

Learning Outcomes

ON8 Analyze and process information, technical data, indicators and performance of transport systems

Prerequisites

Organization of transportations and management by motion

Postrequisites

Modern technologies of cargo and passenger delivery Modern logistics technologies for cargo and passenger delivery New technologies in transportation

Intellectual property in quality management

Discipline cycle	Basic disciplines
Discipline component	Electives
SubjectID	29614 (3022571)
Course	4
Term	1
Credits count	3
Lections	15hours
Practical and seminar classes	15hours
Independent work of a student under the guidance of a teacher	20hours
Independent work of the student	40hours
Total	90hours
Knowledge control form	Examination

Short description of discipline

The discipline studies the basics, definitions and basic provisions and protection of intellectual property and copyrights, regulatory and legislative acts on innovative activities of enterprises, the composition, volume, condition and development of intangible assets of transport enterprises, improving the qualification level of employees, quality bonuses for enterprises and specific transport workers, accounting for innovation proposals and inventions during production

Purpose of studying of the discipline

The aim is to familiarize students with the theory and practice of intellectual property management in organizations of various types and possible ways of applying the knowledge gained in practice

Learning Outcomes

ON8 Analyze and process information, technical data, indicators and performance of transport systems

Prerequisites

Organization of transport and logistics activities Transport- logistic infrastructure Logistic of the system of international transport processes

Postrequisites

Final examination

Fundamentals of innovation and patenting

Discipline cycle	Basic disciplines
Discipline component	Electives
SubjectID	29616 (3022569)
Course	4
Term	1
Credits count	3
Lections	15hours
Practical and seminar classes	15hours
Independent work of a student under the guidance of a teacher	20hours
Independent work of the student	40hours
Total	90hours
Knowledge control form	Examination

Short description of discipline

The discipline studies the scientific, theoretical and methodological foundations of patenting and innovation, the basic terms and concepts of intellectual property, methods of legal regulation of innovation, state systems of regulation and protection of intellectual property rights, to make applications for property objects; claims and the scope of patent rights, the organization of the preparation of application materials submitted for patenting intellectual property objects of the Republic Kazakhstan, as well as the implementation of expertise

Purpose of studying of the discipline

The aim is to familiarize students with the theory and practice of innovative activities in transport organizations and possible ways of applying the knowledge gained in practice

Learning Outcomes

ON8 Analyze and process information, technical data, indicators and performance of transport systems

Prerequisites
Organization of transport and logistics activities Transport- logistic infrastructure Logistic of the system of international transport processes
Postrequisites
Final examination

Fundamentals of scientific research

Discipline cycle	Basic disciplines
Discipline component	University component
SubjectID	29260 (3022585)
Course	4
Term	1
Credits count	3
Lections	15hours
Practical and seminar classes	15hours
Independent work of a student under the guidance of a teacher	20hours
Independent work of the student	40hours
Total	90hours
Knowledge control form	Examination

Short description of discipline
The discipline studies general information about science; known methods of scientific research, their classification, areas of application, as well as their place in the research process; organization and general information about scientific research; the choice of their topics; methods of working with literary sources and practical information; the concept of academic writing; the issues of search, accumulation and processing of scientific information for writing graduation and qualification papers.
Purpose of studying of the discipline
The study of the basics, types, methods and methods of research work.
Learning Outcomes
ON8 Analyze and process information, technical data, indicators and performance of transport systems
Prerequisites
School course
Postrequisites
Final examination

Certification and licensing of transport and logistics services

Discipline cycle	Basic disciplines
Discipline component	Electives
SubjectID	29615 (3022570)
Course	4
Term	1
Credits count	3
Lections	15hours
Practical and seminar classes	15hours
Independent work of a student under the guidance of a teacher	20hours
Independent work of the student	40hours
Total	90hours
Knowledge control form	Examination

Short description of discipline
The discipline studies the basics and principles of licensing and certification systems for transport services; regulatory legal acts of the legislation of the Republic of Kazakhstan in the field of licensing and certification of certain types of activities and certification of products, processes, works and services; procedure and conditions for issuing licenses; formation of organizations for licensing and certification of rolling stock; national and international licensing and certification systems; organization, procedure for certification of vehicles
Purpose of studying of the discipline
To familiarize future specialists with the systems of licensing and certification in transport, as well as to instill practical skills in preparation for obtaining a license to carry out motor transport activities and a certificate of conformity for vehicles and spare parts for them.
Learning Outcomes
ON8 Analyze and process information, technical data, indicators and performance of transport systems
Prerequisites
Organization of transport and logistics activities Transport- logistic infrastructure Logistic of the system of international transport processes
Postrequisites
Final examination

Quality assessment of freight and passenger transport

Discipline cycle	Profiling discipline

Discipline component	Electives
SubjectID	29632 (3022556)
Course	4
Term	1
Credits count	6
Lections	30hours
Practical and seminar classes	30hours
Independent work of a student under the guidance of a teacher	40hours
Independent work of the student	80hours
Total	180hours
Knowledge control form	Examination

Short description of discipline
The discipline studies the quality management of freight and passenger transportation: analysis and selection of methods for assessing the quality of transportation, admission of Kazakhstani carriers to international transportation, freight and passenger tariffs of various modes of transport, methods of calculating freight payments by modes of transport, the system of payment for baggage and travel, control and accounting of cargo and passenger transportation

Purpose of studying of the discipline
The purpose of studying the discipline "Assessment of the quality of freight and passenger transportation" is to develop various measures (control actions) that affect the transportation process.

Learning Outcomes
ON8 Analyze and process information, technical data, indicators and performance of transport systems

Prerequisites
Optimization of transport logistics processes Optimization methods and operations research Optimization of transportation processes

Postrequisites
Final examination

Assessment of the work and quality of transportation on transport

Discipline cycle	Profiling discipline
Discipline component	Electives
SubjectID	29623 (3022554)
Course	4
Term	1
Credits count	6
Lections	30hours
Practical and seminar classes	30hours
Independent work of a student under the guidance of a teacher	40hours
Independent work of the student	80hours
Total	180hours
Knowledge control form	Examination

Short description of discipline
The discipline studies the state of the modern transport services market: analysis of assessment methods and indicators of transport quality, transport quality management, quality indicators, their calculation and rationing, modern methodologies for assessing the quality of transport, methods for assessing the quality of transport services, calculated and expert indicators, integral quality indicator, comprehensive assessment, quality of logistics service orders, as well as features of the assessment of transport services

Purpose of studying of the discipline
The purpose of studying the discipline is to study methods of assessing the work and quality of transportation in transport

Learning Outcomes
ON8 Analyze and process information, technical data, indicators and performance of transport systems

Prerequisites
Optimization of transport logistics processes Optimization methods and operations research Optimization of transportation processes

Postrequisites
Final examination

Service on a transport

Discipline cycle	Profiling discipline
Discipline component	Electives
SubjectID	29617 (3022565)
Course	4
Term	1
Credits count	5
Lections	15hours
Practical and seminar classes	30hours
Independent work of a student under the guidance of a teacher	35hours
Independent work of the student	70hours

Total	150hours
Knowledge control form	Examination

Short description of discipline
The discipline studies freight forwarding services as a complex of transport services, substantiation and determination of quality service parameters by various modes of transport, rational levels of concentration of forwarding services in the service centers of freight and passenger transportation by various modes of transport, stimulation of the development of the transport services market, assessment of the degree and completeness of the availability of execution of orders by modes of transport, advertising activities in transport

Purpose of studying of the discipline
The objectives of the discipline are: mastering by students of theoretical knowledge about the subject, methods and tasks, actual problems of service management in transport.

Learning Outcomes
ON8 Analyze and process information, technical data, indicators and performance of transport systems

Prerequisites
Modern technologies of cargo and passenger delivery Modern logistics technologies for cargo and passenger delivery New technologies in transportation

Postrequisites
Final examination

Services in the field of transport

Discipline cycle	Profiling discipline
Discipline component	Electives
SubjectID	29624 (3022564)
Course	4
Term	1
Credits count	5
Lections	15hours
Practical and seminar classes	30hours
Independent work of a student under the guidance of a teacher	35hours
Independent work of the student	70hours
Total	150hours
Knowledge control form	Examination

Short description of discipline
The discipline studies the concept, features and classification of transport services, the rational distribution of cargo transportation between all modes of transport, the choice of a suitable service provider, the functions of the transport services market, ensuring timely and complete satisfaction of the needs of the country and the national economy in the transportation of goods with minimal transport costs, rational interaction of various modes of transport by periods of the year, modern transport services

Purpose of studying of the discipline
The purpose of studying the discipline "Services in the field of transport" is to give an idea of goods, their properties, rules of transportation; to clarify the requirements for vehicles and loading and unloading mechanisms when performing transportation; to study the rules for developing transport and technological schemes for the transportation of certain types of goods.

Learning Outcomes
ON8 Analyze and process information, technical data, indicators and performance of transport systems

Prerequisites
Modern technologies of cargo and passenger delivery Modern logistics technologies for cargo and passenger delivery New technologies in transportation

Postrequisites
Final examination

Forwarding services on transport

Discipline cycle	Profiling discipline
Discipline component	Electives
SubjectID	29625 (3022563)
Course	4
Term	1
Credits count	5
Lections	15hours
Practical and seminar classes	30hours
Independent work of a student under the guidance of a teacher	35hours
Independent work of the student	70hours
Total	150hours
Knowledge control form	Examination

Short description of discipline
The discipline studies the purpose and role of forwarding services, freight forwarding work during shipment and arrival of cargo, the transport process and freight forwarding services, the classification of forwarding services, the regulatory framework of forwarding services, the rules for the provision of forwarding services, the relationship of the forwarder and the client, the relationship of the forwarder and the carrier, the features of assessing the quality of forwarding services, global trends and international experience in the

field of freight forwarding

Purpose of studying of the discipline

The purpose is to get acquainted with forwarding services on transport

Learning Outcomes

ON8 Analyze and process information, technical data, indicators and performance of transport systems

Prerequisites

Specialized rolling stock

Postrequisites

Final examination

Efficiency of road and transportation complex

Discipline cycle	Profiling discipline
Discipline component	Electives
SubjectID	29633 (3022555)
Course	4
Term	1
Credits count	6
Lections	30hours
Practical and seminar classes	30hours
Independent work of a student under the guidance of a teacher	40hours
Independent work of the student	80hours
Total	180hours
Knowledge control form	Examination

Short description of discipline

The discipline studies the methodology, methods and techniques of economic analysis, the content and tasks of economic analysis and the design of transport complexes with ensuring the necessary level of quality of transport services, the patterns of formation of passenger flows, cargo flows and traffic organization, the basic principles and procedure for designing transport complexes, functional and cost analysis, economic and mathematical methods of analysis of economic activity; information support, as well as types of economic analysis

Purpose of studying of the discipline

The purpose of teaching the discipline "Efficiency of the road transport complex" is to form students` knowledge and skills in the analysis and design of transport complexes to ensure the necessary level of quality of transport services and its technical and economic efficiency, acquisition of practical skills and abilities in the field of quantitative and qualitative assessment of economic processes and transport management at enterprises using innovative methods.

Learning Outcomes

ON8 Analyze and process information, technical data, indicators and performance of transport systems

Prerequisites

Optimization of transport logistics processes Optimization methods and operations research Optimization of transportation processes

Postrequisites

Final examination

Pre-diploma practice

Discipline cycle	Profiling discipline
Discipline component	Electives
SubjectID	29634 (3022514)
Course	4
Term	2
Credits count	15
Undergraduate practice	450hours
Total	450hours
Knowledge control form	Total mark on practice

Short description of discipline

The pre-graduate practice, aimed at developing general and consolidating professional competencies, deepening initial professional experience, forms specialists capable of solving economic, managerial and production tasks. The knowledge gained, studied general education, basic and professional disciplines, including industrial practices, should be used as much as possible when writing and defending the final work / project and applied in the future in professional activities

Purpose of studying of the discipline

The purpose of the pre-graduate practice is to confirm theoretical knowledge in professional modules; search, collection, analysis, systematization of information, conducting research necessary for writing a final qualifying work, confirming the formed professional competencies, as well as adaptation to the labor market.

Learning Outcomes

ON8 Analyze and process information, technical data, indicators and performance of transport systems

Prerequisites

Production practice 2

Postrequisites

Final examination

Production practice 3

Discipline cycle	Profiling discipline
Discipline component	Electives
SubjectID	29635 (3022581)
Course	4
Term	2
Credits count	15
Working practice	450hours
Total	450hours
Knowledge control form	Total mark on practice

Short description of discipline

The third industrial practice, being one of the components of the training of highly qualified transport specialists, contributes to the adaptation and successful work in transport companies. The main objectives of the third industrial practice are: integration of educational, theoretical, professional, practical and research activities of students, as well as focus on the use of modern methods of calculation and analytical work in logistics companies

Purpose of studying of the discipline

Acquaintance and study with the real practical work of the enterprise, and the management system operating on it, used to solve production problems. Participation in the maintenance of transportation processes. Acquisition of practical skills of individual and collective development of transportation processes, formation of technical documents. Development of skills of independent solution of tasks for the management of the transportation process.

Learning Outcomes

ON8 Analyze and process information, technical data, indicators and performance of transport systems

Prerequisites

Production practice 2

Postrequisites

Final examination

Module 9. Management in logistics

Business Ethics

Discipline cycle	Basic disciplines
Discipline component	Electives
SubjectID	29343 (3022515)
Course	1
Term	2
Credits count	3
Lections	15hours
Practical and seminar classes	15hours
Independent work of a student under the guidance of a teacher	20hours
Independent work of the student	40hours
Total	90hours
Knowledge control form	Examination

Short description of discipline

The discipline studies concepts, means, barriers of ethics of business communication; rhetoric and business rhetoric; official business written speech; culture of conducting business polemics, ethics of public speaking, manipulation in business communication, as well as the image of a business person; being a special case of ethics and containing its main characteristics, a set of moral norms, ideas and rules, regulating the behavior and attitudes of people in the course of their professional activities

Purpose of studying of the discipline

Providing students with the basics of ethical knowledge in the field of business relations and teaching them modern practical principles of business ethics.

Learning Outcomes

ON9 Apply modern management approaches, business administration and entrepreneurial solutions in the field of logistics and supply chain management

Prerequisites

School course

Postrequisites

Commercial logistics Production process logistics Production logistics

Business ethics

Discipline cycle	Basic disciplines
Discipline component	Electives
SubjectID	29349 (3022516)
Course	1
Term	2
Credits count	3

Lections	15hours
Practical and seminar classes	15hours
Independent work of a student under the guidance of a teacher	20hours
Independent work of the student	40hours
Total	90hours
Knowledge control form	Examination

Short description of discipline

The discipline examines the introduction, definition, functions and principles of business and unethical Ethics in the corporate environment; changes in the business landscape, as well as business ethics as the basis of business power and stakeholders, including ethical issues in marketing; moral problems of business, ethics of the head and the organization`s activities, business etiquette, ethics of behavior in the workplace, as well as ethics of conflict resolution

Purpose of studying of the discipline

Mastering scientific and applied knowledge in the field of business and professional ethics by students.

Learning Outcomes

ON9 Apply modern management approaches, business administration and entrepreneurial solutions in the field of logistics and supply chain management

Prerequisites

School course

Postrequisites

Commercial logistics Production process logistics Production logistics

Professional ethics

Discipline cycle	Basic disciplines
Discipline component	Electives
SubjectID	29350 (3022517)
Course	1
Term	2
Credits count	3
Lections	15hours
Practical and seminar classes	15hours
Independent work of a student under the guidance of a teacher	20hours
Independent work of the student	40hours
Total	90hours
Knowledge control form	Examination

Short description of discipline

The discipline studies the relationship with etiquette, the basic concepts and principles of professional ethics that make up the image of a business person, the culture of conducting business polemics, the specifics of conducting business conversations, the main elements of business etiquette, the organization of meetings and negotiations, as well as the essence, classification and functions of professional ethics, management ethics, ethics of business and services, the principles of professional etiquette, disputes and conflicts in professional activity

Purpose of studying of the discipline

Formation in students of a system of values, moral guidelines and rules of conduct necessary for the effective implementation of professional activities.

Learning Outcomes

ON9 Apply modern management approaches, business administration and entrepreneurial solutions in the field of logistics and supply chain management

Prerequisites

School course

Postrequisites

Commercial logistics Production process logistics Production logistics

Commercial logistics

Discipline cycle	Basic disciplines
Discipline component	Electives
SubjectID	29361 (3022521)
Course	2
Term	1
Credits count	3
Lections	15hours
Practical and seminar classes	15hours
Independent work of a student under the guidance of a teacher	20hours
Independent work of the student	40hours
Total	90hours
Knowledge control form	Examination

Short description of discipline

The discipline studies the history of logistics development, the principle of building a logistics system as a type of economic logistics, taking into account managerial and technological aspects designed to minimize transport costs; the strategy and mission of commercial logistics, its concept and essence; the main objects of logistics management of procurement activities, production process, distribution and warehousing activities, as well as transport and logistics provision of logistics processes.

Purpose of studying of the discipline

Formation of students` skills and knowledge in the field of commerce and logistics, management of trade flow processes, procurement, distribution

Learning Outcomes

ON9 Apply modern management approaches, business administration and entrepreneurial solutions in the field of logistics and supply chain management

Prerequisites

Business Ethics Business ethics Professional ethics

Postrequisites

Operating and warehouse logistics Logistics of supply and distribution Warehousing logistics

Production logistics

Discipline cycle	Basic disciplines
Discipline component	Electives
SubjectID	29363 (3022523)
Course	2
Term	1
Credits count	3
Lections	15hours
Practical and seminar classes	15hours
Independent work of a student under the guidance of a teacher	20hours
Independent work of the student	40hours
Total	90hours
Knowledge control form	Examination

Short description of discipline

The discipline studies the basic definitions and concepts of logistics of production processes in the logistics management system, the logistics foundations of the organization and maintenance of production processes, the mission, functions, strategy and tactics of production logistics; methods of production logistics management in modern economic conditions, as well as logistics production management using modern integrated management systems that help minimize costs at all stages of production

Purpose of studying of the discipline

To form the skills of production planning and management of production operations based on the methods of modern logistics

Learning Outcomes

ON9 Apply modern management approaches, business administration and entrepreneurial solutions in the field of logistics and supply chain management

Prerequisites

Business Ethics Business ethics Professional ethics

Postrequisites

Operating and warehouse logistics Logistics of supply and distribution Warehousing logistics

Production process logistics

Discipline cycle	Basic disciplines
Discipline component	Electives
SubjectID	29362 (3022522)
Course	2
Term	1
Credits count	3
Lections	15hours
Practical and seminar classes	15hours
Independent work of a student under the guidance of a teacher	20hours
Independent work of the student	40hours
Total	90hours
Knowledge control form	Examination

Short description of discipline

The discipline studies the conceptual and methodological foundations of logistics, the comparative characteristics of classical and systematic approaches to the formation of logistics systems on the example of the enterprises indicated by the teacher, taking into account the peculiarities of accounting for logistics costs, the qualitative and quantitative flexibility of production systems and the problems of accounting for costs in logistics, as well as the ordering of the movement of material flows and methods of reducing the cost of goods and services

Purpose of studying of the discipline

Development of systems thinking and skills in the organization of logistics of production processes

Learning Outcomes

ON9 Apply modern management approaches, business administration and entrepreneurial solutions in the field of logistics and supply

chain management

Prerequisites

Business Ethics Business ethics Professional ethics

Postrequisites

Operating and warehouse logistics Logistics of supply and distribution Warehousing logistics

Warehousing logistics

Discipline cycle	Basic disciplines
Discipline component	Electives
SubjectID	29375 (3022529)
Course	2
Term	2
Credits count	5
Lections	15hours
Practical and seminar classes	30hours
Independent work of a student under the guidance of a teacher	35hours
Independent work of the student	70hours
Total	150hours
Knowledge control form	Examination

Short description of discipline

The discipline studies the warehouse system as an object of logistics of material flows, intra-production warehousing, warehouse as a complex of interrelated logistics operations, warehouse network and warehouse management, technology of warehouse logistics operations and their effectiveness, a set of tasks for the formation of a warehouse network, as well as the organization and management of the logistics process in the warehouse; organization and development of a network of transport and logistics centers in the region; principles of company selection

Purpose of studying of the discipline

Training in warehouse management skills, tracking the movement of goods, optimizing the cost of storing inventory

Learning Outcomes

ON9 Apply modern management approaches, business administration and entrepreneurial solutions in the field of logistics and supply chain management

Prerequisites

Commercial logistics Production process logistics Production logistics

Postrequisites

Distribution logistics Corporate distribution Distribution logistics at the enterprise

Logistics of supply and distribution

Discipline cycle	Basic disciplines
Discipline component	Electives
SubjectID	29374 (3022528)
Course	2
Term	2
Credits count	5
Lections	15hours
Practical and seminar classes	30hours
Independent work of a student under the guidance of a teacher	35hours
Independent work of the student	70hours
Total	150hours
Knowledge control form	Examination

Short description of discipline

The discipline studies the goals and objectives of logistics of supply and distribution as a functional area of integrated logistics, methods and evaluation of improving their efficiency, logistics management strategy of supply and distribution; mechanisms of procurement logistics, the evolution of relations with suppliers, organization and evaluation of the effectiveness of procurement activities, including the use of outsourcing methods of business processes in logistics of supply, distribution and sales.

Purpose of studying of the discipline

Training of students in the issues of supply, logistics of production and distribution (distribution).

Learning Outcomes

ON9 Apply modern management approaches, business administration and entrepreneurial solutions in the field of logistics and supply chain management

Prerequisites

Commercial logistics Production process logistics Production logistics

Postrequisites

Distribution logistics Corporate distribution Distribution logistics at the enterprise

Operating and warehouse logistics

Discipline cycle	Basic disciplines
Discipline component	Electives

SubjectID	29373 (3022527)
Course	2
Term	2
Credits count	5
Lections	15hours
Practical and seminar classes	30hours
Independent work of a student under the guidance of a teacher	35hours
Independent work of the student	70hours
Total	150hours
Knowledge control form	Examination

Short description of discipline
The discipline studies the principles of integrated logistics management of the enterprise, the characteristics of production and warehouse logistics, the provision of flow processes based on modern Lean Production, Kanban, Just-in-Time systems, etc.; order fulfillment, transportation management, packaging, materials processing, warehouse management, inventory management and the design of a network of facilities, the use of a transport and warehouse system, as well as prospects for the development of production and warehouse logistics

Purpose of studying of the discipline
Development of knowledge and skills of management of production flow processes and warehousing system at the enterprise

Learning Outcomes
ON9 Apply modern management approaches, business administration and entrepreneurial solutions in the field of logistics and supply chain management

Prerequisites
Commercial logistics Production process logistics Production logistics

Postrequisites
Distribution logistics Corporate distribution Distribution logistics at the enterprise

Distribution logistics

Discipline cycle	Profiling discipline
Discipline component	Electives
SubjectID	29387 (3022536)
Course	3
Term	1
Credits count	5
Lections	15hours
Practical and seminar classes	30hours
Independent work of a student under the guidance of a teacher	35hours
Independent work of the student	70hours
Total	150hours
Knowledge control form	Examination

Short description of discipline
The discipline studies the basic concepts in the field of management of material and information flows, in accordance with the needs of the market at the stage of distribution (distribution) of finished products and the sale of goods through the retail network, the place and role of distribution in the enterprise, the formation of distribution channels and paths, the market relationship of intermediaries, the quality of service in distribution, as well as the organization of distribution networks of goods through sales representatives and other partner agents.

Purpose of studying of the discipline
Formation of students` analytical thinking and practical skills in managing material flows and distribution of goods necessary in the practical work of a logistics manager.

Learning Outcomes
ON9 Apply modern management approaches, business administration and entrepreneurial solutions in the field of logistics and supply chain management

Prerequisites
Operating and warehouse logistics Logistics of supply and distribution Warehousing logistics

Postrequisites
Global logistics and SCM Foreign trade operations and their transport support Supply chain planning and management

Corporate distribution

Discipline cycle	Profiling discipline
Discipline component	Electives
SubjectID	33024 (3022537)
Course	3
Term	1
Credits count	5
Lections	15hours
Practical and seminar classes	30hours

Independent work of a student under the guidance of a teacher	35hours
Independent work of the student	70hours
Total	150hours
Knowledge control form	Examination

Short description of discipline
The discipline studies the basics and quality of distribution service at the enterprise, classification, types and models of distribution, product distribution schemes, formation of distribution channels and networks, distribution development schemes and strategies, operations and organization of physical distribution, as well as the role and importance of accounting and contractual units, physical distribution, coordination and integration of actions and relationships of logistics intermediaries with the use of Internet technologies.

Purpose of studying of the discipline
Training of personnel for dealer networks based on the work of corporate structures and multinational companies

Learning Outcomes
ON9 Apply modern management approaches, business administration and entrepreneurial solutions in the field of logistics and supply chain management

Prerequisites
Operating and warehouse logistics Logistics of supply and distribution Warehousing logistics

Postrequisites
Global logistics and SCM Foreign trade operations and their transport support Supply chain planning and management

Distribution logistics at the enterprise

Discipline cycle	Profiling discipline
Discipline component	Electives
SubjectID	33027 (3022538)
Course	3
Term	1
Credits count	5
Lections	15hours
Practical and seminar classes	30hours
Independent work of a student under the guidance of a teacher	35hours
Independent work of the student	70hours
Total	150hours
Knowledge control form	Examination

Short description of discipline
The discipline studies the place and role of distribution in the enterprise, the organization of the distribution system, the formation of distribution channels and networks, taking into account the process of distribution of goods; logistics intermediaries in distribution, being a complex of interrelated functions implemented in the process of inventory sales among customers, applying the golden rules of physical distribution, coordination and integration of actions of logistics intermediaries and forms of logistics integration.

Purpose of studying of the discipline
Development of knowledge and skills of logistics and distribution organization at the enterprise.

Learning Outcomes
ON9 Apply modern management approaches, business administration and entrepreneurial solutions in the field of logistics and supply chain management

Prerequisites
Operating and warehouse logistics Logistics of supply and distribution Warehousing logistics

Postrequisites
Global logistics and SCM Foreign trade operations and their transport support Supply chain planning and management

Foreign trade operations and their transport support

Discipline cycle	Profiling discipline
Discipline component	Electives
SubjectID	29613 (3022552)
Course	3
Term	2
Credits count	5
Lections	15hours
Practical and seminar classes	30hours
Independent work of a student under the guidance of a teacher	35hours
Independent work of the student	70hours
Total	150hours
Knowledge control form	Examination

Short description of discipline
The discipline studies the concepts and classification and functions and participants of foreign economic relations and operations, international conventions and intergovernmental agreements, organization and technique of foreign trade, international and national regulation of foreign economic operations, customs regulation, foreign trade contract, its structure and content, as well as general factors of development of foreign economic activity and its development in the regions, taking into account the movement of goods

Purpose of studying of the discipline
To reveal the content of relations, relations, operations and other issues taking place in international trade between cargo owners and owners of vehicles, between trade and transport
Learning Outcomes
ON9 Apply modern management approaches, business administration and entrepreneurial solutions in the field of logistics and supply chain management
Prerequisites
Distribution logistics Corporate distribution Distribution logistics at the enterprise
Postrequisites
Logistics strategies and innovation Innovative directions in professional activity Personnel management

Global logistics and SCM

Discipline cycle	Profiling discipline
Discipline component	Electives
SubjectID	29612 (3022551)
Course	3
Term	2
Credits count	5
Lections	15hours
Practical and seminar classes	30hours
Independent work of a student under the guidance of a teacher	35hours
Independent work of the student	70hours
Total	150hours
Knowledge control form	Examination

Short description of discipline
The discipline studies the logistics activities of multinational companies, transport in supply chains, export and import operations and the role of government in these processes, international transport systems, inventory management and customs clearance, global sourcing, service and placement of facilities, integration of multimodal systems and global projects, information flow and movement of finance in supply chains, reverse logistics, scientific applied management in the development of supply chains
Purpose of studying of the discipline
Developing an understanding of the logistics activities of multinational companies, supply chain strategies, export and import operations
Learning Outcomes
ON9 Apply modern management approaches, business administration and entrepreneurial solutions in the field of logistics and supply chain management
Prerequisites
Distribution logistics Corporate distribution Distribution logistics at the enterprise
Postrequisites
Logistics strategies and innovation Innovative directions in professional activity Personnel management

Supply chain planning and management

Discipline cycle	Profiling discipline
Discipline component	Electives
SubjectID	29540 (3022553)
Course	3
Term	2
Credits count	5
Lections	15hours
Practical and seminar classes	30hours
Independent work of a student under the guidance of a teacher	35hours
Independent work of the student	70hours
Total	150hours
Knowledge control form	Examination

Short description of discipline
The discipline studies the formation and integration of supply chains, basic operations in supply chains, strategic solutions insourcing / outsourcing in supply chains, dislocation of logistics and production facilities, optimization of transportation in supply chains, optimization of the configuration of the network structure of supply chains, operational strategy of supply chains, supply chain management system, as well as logistics performance indicators, taking into account their methods and use
Purpose of studying of the discipline
Formation of students` stable understanding of the basic concepts and patterns of integration of key business processes in supply chains, concepts and approaches to supply chain management
Learning Outcomes
ON9 Apply modern management approaches, business administration and entrepreneurial solutions in the field of logistics and supply chain management
Prerequisites
Distribution logistics Corporate distribution Distribution logistics at the enterprise
Postrequisites

Logistics strategies and innovation Innovative directions in professional activity Personnel management

Innovative directions in professional activity

Discipline cycle	Profiling discipline
Discipline component	Electives
SubjectID	29619 (3022573)
Course	4
Term	1
Credits count	5
Lections	15hours
Practical and seminar classes	30hours
Independent work of a student under the guidance of a teacher	35hours
Independent work of the student	70hours
Total	150hours
Knowledge control form	Examination

Short description of discipline

The discipline studies innovative technologies of cargo delivery: the main directions of innovative activity in the transport sector, the application of scientific achievements in various modes of transport, the development of the transport network, innovative technologies in logistics, the application of innovative concepts in logistics, electronic logistics and e-business, innovative processes and scientific and technological progress in the field of international logistics, taking into account the world experience, economic competition in the field of innovation

Purpose of studying of the discipline

To provide students with systematized knowledge and the formation of professional competencies in the field of innovation management.

Learning Outcomes

ON9 Apply modern management approaches, business administration and entrepreneurial solutions in the field of logistics and supply chain management

Prerequisites

Global logistics and SCM Foreign trade operations and their transport support Supply chain planning and management

Postrequisites

Final examination

Logistics strategies and innovation

Discipline cycle	Profiling discipline
Discipline component	Electives
SubjectID	29620 (3022572)
Course	4
Term	1
Credits count	5
Lections	15hours
Practical and seminar classes	30hours
Independent work of a student under the guidance of a teacher	35hours
Independent work of the student	70hours
Total	150hours
Knowledge control form	Examination

Short description of discipline

The discipline studies the role of logistics in the global economy, logistics policy and strategy, their characteristics, logistics systems depending on the types of markets, integration of the main functions of logistics, marketing, production and finance, as well as innovative technologies in logistics, types and types of logistics strategies, the application of innovative concepts in logistics activities, their classification, implementation strategies innovative logistics, electronic logistics and electronic business, global logistics problems

Purpose of studying of the discipline

Formation of students` knowledge in the field of modern innovative technologies for managing logistics processes of the digital economy, as well as the development of skills for solving management tasks using modern mechanisms of innovative logistics

Learning Outcomes

ON9 Apply modern management approaches, business administration and entrepreneurial solutions in the field of logistics and supply chain management

Prerequisites

Global logistics and SCM Foreign trade operations and their transport support Supply chain planning and management

Postrequisites

Final examination

Personnel management

Discipline cycle	Profiling discipline
Discipline component	Electives
SubjectID	29618 (3022574)
Course	4

Term	1
Credits count	5
Lections	15hours
Practical and seminar classes	30hours
Independent work of a student under the guidance of a teacher	35hours
Independent work of the student	70hours
Total	150hours
Knowledge control form	Examination

Short description of discipline

The discipline studies personnel as an object of management and the functional division of labor, the principles of personnel management and the organizational structure of the personnel management service: legal, technical, informational and personnel support, relocation, analysis of personnel potential, providing a personnel reserve, business career planning, calculation of personnel needs, personnel management issues of transport enterprises, employee performance assessment, application of bonus systems

Purpose of studying of the discipline

To give the basics of theoretical knowledge in the field of personnel management and HR technologies, to form your own idea of the construction and development of the company`s personnel management system

Learning Outcomes

ON9 Apply modern management approaches, business administration and entrepreneurial solutions in the field of logistics and supply chain management

Prerequisites

Global logistics and SCM Foreign trade operations and their transport support Supply chain planning and management

Postrequisites

Final examination

Final examination

Writing and defending a thesis or preparing and passing a comprehensive exam.

Diplom work

Credits count	8

Comprehensive exam

Credits count	8

4.Summary table on the scope of the educational program «6B11303 - Logistics and organization of transportation»

Name of discipline	Cycle/ Component	Term	Number of credits	Total hours	Lec	SPL	LC	IWST	IWS	Knowledge control form
Module 1. Fundamentals of social and humanitarian knowledge										
Foreign language	GER/CC	1	5	150		45		35	70	Examination
Kazakh language	GER/CC	1	5	150		45		35	70	Examination
Bases of economics, law and ecological knowledge	GER/US	1	5	150	15	30		35	70	Examination
Russian language	GER/CC	1	5	150		45		35	70	Examination
Physical Culture	GER/CC	1	2	60		60				Examination
Kazakh language	GER/CC	2	5	150		45		35	70	Examination
Foreign language	GER/CC	2	5	150		45		35	70	Examination
History of Kazakhstan	GER/CC	2	5	150	30	15		35	70	Qualification examination
The module of socio-political knowledge (sociology, political science, cultural studies, psychology)	GER/CC	2	8	240	30	45		55	110	Examination
Russian language	GER/CC	2	5	150		45		35	70	Examination
Physical Culture	GER/CC	2	2	60		60				Differentiated attestation
Physical Culture	GER/CC	3	2	60		60				Examination
World of Abai	BS/US	3	3	90	15	15		20	40	Examination
Information and communication technology	GER/CC	4	5	150	15	15	15	35	70	Examination
Physical Culture	GER/CC	4	2	60		60				Differentiated attestation
Philosophy	GER/CC	5	5	150	15	30		35	70	Examination
Module 2. Information technologies in transport										
Computer graphics are in a transport planning	BS/CCh	5	5	150	15	30		35	70	Examination
Machine graphic arts	BS/CCh	5	5	150	15	30		35	70	Examination
Fundamentals of computer modeling	BS/CCh	5	5	150	15	30		35	70	Examination
Automated control systems of transportation process	BS/CCh	6	5	150	15	30		35	70	Examination
Intelligent systems of transport management	BS/CCh	6	5	150	15	30		35	70	Examination
Information support of the transportation process	BS/CCh	6	5	150	15	30		35	70	Examination
Module 3. Mathematical methods and models in logistics										
Mathematics	BS/US	1	5	150	15	30		35	70	Examination
Optimization methods and operations research	BS/CCh	6	5	150	15	30		35	70	Examination

Mathematical methods and models in logistics	BS/CCh	6	5	150	15	30		35	70	Examination
Mathematical methods of decision of transport tasks	BS/CCh	6	5	150	15	30		35	70	Examination
Mathematical modeling of economic processes and systems	BS/CCh	6	5	150	15	30		35	70	Examination
Optimization of transport logistics processes	BS/CCh	6	5	150	15	30		35	70	Examination
Optimization of transportation processes	BS/CCh	6	5	150	15	30		35	70	Examination
Tariffs in the logistics system	AS/CCh	7	5	150	15	30		35	70	Examination
Economy in transport	AS/CCh	7	5	150	15	30		35	70	Examination
Economic processes in transport	AS/CCh	7	5	150	15	30		35	70	Examination
Module 4. Introduction to the logistics profession										
Introduction to the logistics profession	BS/US	1	5	150	15	30		35	70	Examination
Transport geography	BS/US	1	3	90	15	15		20	40	Examination
Educational practice	BS/US	2	2	60						Total mark on practice
Study of loads	BS/US	3	5	150	15	30		35	70	Examination
History of transport development	BS/CCh	3	5	150	30	15		35	70	Examination
The General course of the Railways	BS/CCh	3	5	150	30	15		35	70	Examination
Flat rate of transport	BS/CCh	3	5	150	30	15		35	70	Examination
Packaging and packaging technology	BS/US	4	5	150	15	30		35	70	Examination
Module 5.Organization and management of transportation										
Bases of freight and commercial work	BS/US	3	5	150	15	30		35	70	Examination
Organization of transportations and management by motion	BS/US	3	5	150	15	30		35	70	Examination
Logistic of the system of international transport processes	BS/CCh	4	5	150	15	30		35	70	Examination
Organization of transport and logistics activities	BS/CCh	4	5	150	15	30		35	70	Examination
Production practice 1	BS/US	4	5	150						Total mark on practice
Transport-logistic infrastructure	BS/CCh	4	5	150	15	30		35	70	Examination
Cooperation of types of transport	BS/US	5	5	150	30	15		35	70	Examination
Module 6. New technologies in transportation										
Production practice 2	BS/US	6	5	150						Total mark on practice
New technologies in transportation	AS/CCh	6	5	150	15	30		35	70	Examination
Modern logistics technologies for cargo and passenger delivery	AS/CCh	6	5	150	15	30		35	70	Examination
Modern technologies of cargo and passenger delivery	AS/CCh	6	5	150	15	30		35	70	Examination
Innovative technologies of terminal cargo processing	AS/CCh	7	5	150	15	30		35	70	Examination
Modern technologies and devices for optimizing terminal activity	AS/CCh	7	5	150	15	30		35	70	Examination
Terminal transportation technologies	AS/CCh	7	5	150	15	30		35	70	Examination

Module 7. Operation of rolling stock										
Organization and mechanization of loading and unloading operations	BS/US	4	5	150	30	15		35	70	Examination
Specialized rolling stock	BS/US	5	5	150	30	15		35	70	Examination
Basics of ergonomics and design of transport equipment	AS/CCh	7	5	150	15	30		35	70	Examination
Technical operation of transport	AS/CCh	7	5	150	15	30		35	70	Examination
Operation and maintenance of rolling stock	AS/CCh	7	5	150	15	30		35	70	Examination
Module 8. Transport services										
Rules for the carriage of goods and passengers	BS/CCh	5	5	150	15	30		35	70	Examination
Freight transportations	BS/CCh	5	5	150	15	30		35	70	Examination
Passenger transportations	BS/CCh	5	5	150	15	30		35	70	Examination
Intellectual property in quality management	BS/CCh	7	3	90	15	15		20	40	Examination
Fundamentals of innovation and patenting	BS/CCh	7	3	90	15	15		20	40	Examination
Fundamentals of scientific research	BS/US	7	3	90	15	15		20	40	Examination
Certification and licensing of transport and logistics services	BS/CCh	7	3	90	15	15		20	40	Examination
Quality assessment of freight and passenger transport	AS/CCh	7	6	180	30	30		40	80	Examination
Assessment of the work and quality of transportation on transport	AS/CCh	7	6	180	30	30		40	80	Examination
Service on a transport	AS/CCh	7	5	150	15	30		35	70	Examination
Services in the field of transport	AS/CCh	7	5	150	15	30		35	70	Examination
Forwarding services on transport	AS/CCh	7	5	150	15	30		35	70	Examination
Efficiency of road and transportation complex	AS/CCh	7	6	180	30	30		40	80	Examination
Pre-diploma practice	AS/CCh	8	15	450						Total mark on practice
Production practice 3	AS/CCh	8	15	450						Total mark on practice
Module 9. Management in logistics										
Business Ethics	BS/CCh	2	3	90	15	15		20	40	Examination
Business ethics	BS/CCh	2	3	90	15	15		20	40	Examination
Professional ethics	BS/CCh	2	3	90	15	15		20	40	Examination
Commercial logistics	BS/CCh	3	3	90	15	15		20	40	Examination
Production logistics	BS/CCh	3	3	90	15	15		20	40	Examination
Production process logistics	BS/CCh	3	3	90	15	15		20	40	Examination
Warehousing logistics	BS/CCh	4	5	150	15	30		35	70	Examination
Logistics of supply and distribution	BS/CCh	4	5	150	15	30		35	70	Examination
Operating and warehouse logistics	BS/CCh	4	5	150	15	30		35	70	Examination
Distribution logistics	AS/CCh	5	5	150	15	30		35	70	Examination
Corporate distribution	AS/CCh	5	5	150	15	30		35	70	Examination

Distribution logistics at the enterprise	AS/CCh	5	5	150	15	30		35	70	Examination
Foreign trade operations and their transport support	AS/CCh	6	5	150	15	30		35	70	Examination
Global logistics and SCM	AS/CCh	6	5	150	15	30		35	70	Examination
Supply chain planning and management	AS/CCh	6	5	150	15	30		35	70	Examination
Innovative directions in professional activity	AS/CCh	7	5	150	15	30		35	70	Examination
Logistics strategies and innovation	AS/CCh	7	5	150	15	30		35	70	Examination
Personnel management	AS/CCh	7	5	150	15	30		35	70	Examination
Final examination										
Diplom work		8	8	240						
Comprehensive exam		8	8	240						