

AGREED

Director of the international transport and logistics company "Asstra
Almaty" LLP"

Akmetova R.K.



EDUCATIONAL PROGRAM

CATALOG OF DISCIPLINES OF THE UNIVERSITY COMPONENT

6B11371 Modern Logistics Management
Double-degree program
Urumqi Vocational University (UVU)

I APPROVE

Director of the Institute "LB"

Musaeva G.S.

«Мухаметжан Тынышпаев атындағы Қазан Ұлттық университеті» АҚ 2025 у.

ЛОГИСТИКА ЖӘНЕ БИЗНЕС ИНСТИТУТЫ

ИНСТИТУТ ЛОГИСТИКИ И БИЗНЕСА

«О «ALT Университет имени Мухамеджана Тынышпаева»

Education level: Bachelor's degree

Duration of study: 4 years

Year of admission: 2025

Module	Cycle	Component	Name of discipline	Total labor intensity		Semester	Learning outcomes	Brief description of the discipline	Prerequisites	Post-requirements	Department
				in academic hours	in academic credits						
	2	3	4	5	6	7	8	9	10	11	12
Module of natural science competencies	BD	UC	Business mathematics 1	150	5	1	LO9	The discipline studies the basic concepts and laws of modern mathematics, which are necessary tools for solving specific applied business problems. The discipline aims to develop students' independent research skills and the ability to use learned mathematical methods for data analysis, process optimization and decision-making. The content of the discipline includes elements of linear algebra and analytical geometry, differential and integral calculus, probability theory and mathematical statistics. For each section of the course, special attention is paid to problems of an applied nature. уделено задачам прикладного характера.	Basic school education	Business mathematics 1. Principles and Applications of Economics	GE

The module of natural science competencies	BD	UC	Business mathematics 2	120	4	2	LO9	The discipline “Business Mathematics2” studies the fundamentals of probability theory and mathematical statistics, elements of linear programming and queuing theory. The purpose of studying the discipline is to teach students the basics of probability theory and mathematical statistics, the theory of queuing used in solving theoretical and practical problems in the field of economics, finance and business, developing skills in the use of mathematics - an important tool for economic analysis, organization and management, development among students logical and analytical thinking.	Business mathematics 1	Fundamentals of financial literacy, Cost management and logistics efficiency	OH
Professional module	BD	UC	Basics of logistics	180	6	2	LO3	The discipline studies the conceptual framework of logistics, functional areas, concepts, principles of optimization, prerequisites for the emergence and development of logistics systems to solve optimization problems in managing flows in a logistics system, an idea of logistics operations, processes and technologies of cargo delivery	Interaction of modes of transport	Transportation Logistics, Digital Logistics Management, Smart Warehousing and Distribution Management	TSB
	BD	UC	Interaction of modes of transport	180	6	1	LO3, LO12	The discipline studies modes of transport, advantages and disadvantages, technical and operational indicators, forms knowledge and skills in the field of choosing a vehicle and the optimal method of transporting goods, masters methods of interaction of modes of transport, evaluates options for cargo transportation	Basic school education	Fundamentals of logistics, Transport logistics, First-time transportation management	TSB

	BD	UC	Transportation management on transport	210	7	2	LO3, LO12	The study of the principles of organization of transportation and management of the transportation process on various types of transport, the regulatory framework in the field of organization of transportation on transport. Formation of skills for the effective use of material and technical values and rolling stock, solving issues of technical means of transport, studying cargo and passenger flows, solving problems of the transportation process using information technology. When studying the discipline, interactive methods, solving case tasks, solving practical problems are used.	Interaction of modes of transport	Logistics and transportation management, Container transportation and multimodal transportation	TSB
Professional module											
	BD	UC	Chinese language 1	60	2	1	LO2, LO8	Formation of elementary foreign language communicative competence, the ability to communicate with native speakers of the studied foreign (Chinese) language in oral and written speech, expanding the linguistic horizons of students by mastering new language tools (phonetic, spelling, lexical, grammatical); formation of skills to work with information presented in texts of various types (description, narration, reasoning).	Disciplines of the school component	Chinese 2,3, 4 Chinese Language Professional 1,2,3,4	LT
	BD	UC	Chinese language 2	60	2	2	LO2, LO8	Formation of learners' knowledge and skills to apply lexical and grammatical phenomena of the studied language in communicative and professional activities; development of the ability to express communicative intentions through verbal and non-verbal means in a specific sociocultural context, conveying meaning appropriately to a representative of another culture in accordance with the norms of speech behavior and the rules of constructing utterances.	Chinese language 1	Chinese language 3, 4 Chinese Language Professional 1,2,3,4	LT

	BD	UC	Chinese language 3	60	2	3	LO2, LO8	Development and improvement of phonetic, lexical, grammatical, and word-formation skills; acquisition by learners of the necessary and sufficient level of communicative competence to solve social and communicative tasks in various areas — everyday life, culture, and professional activity — when interacting with international partners, as well as for further self-education.	Chinese language 2	Chinese language 4, Chinese Language Professional 1,2,3, 4	LT
									Chinese language 3	Chinese Language Professional 1,2,3,4	LT
Professional module	BD	UC	Chinese language 4	90	3	4	LO2, LO8	The discipline "Chinese Language" is aimed at developing students' basic and advanced communicative competence, including proficiency in phonetic, lexical, grammatical, and word-formation aspects of the language. It also focuses on enhancing oral and written communication skills for effective intercultural and professional interaction in various sociocultural contexts.			
	BD	UC	Professional chinese language 1	90	3	5	LO2, LO8	Formation of learners' knowledge and skills in the volume necessary and sufficient for professional activity; development of listening comprehension skills in the foreign (Chinese) language; acquisition of skills for conducting conversations, dialogues, and delivering speeches on specialized topics related to the current state of politics, economy, culture, and science in the country of the studied language.	Chinese language 1,2,3,4	Chinese Language Professional 2,3,4	UVU

	BD	UC	Professional chinese language 2	90	3	6	LO2, LO8	Formation and improvement of communicative competence, development of the pronunciation norms of the language, reading, speaking, writing, listening on professional topics, mastering situational communication skills, reading and understanding everyday texts and professionally oriented texts, writing short and extended dialogical and monologue messages on proposed situations, mastering a minimum of basic technical terminology necessary for professional communication, conducting conversations in a foreign language on everyday and professional topics.	Chinese language 1, 2,3,4 Chinese Language Professional 1	Professional Chinese 3, 4	UVU
Professional module											
	BD	UC	Professional chinese language 3	60	2	7	LO2, LO8	Development and improvement of communicative competence; strengthening of stable skills in reading, listening, speaking, and writing; acquisition of vocabulary and grammar related to professional topics; ability to conduct conversations in a foreign language on both everyday and professional subjects; mastery of a basic set of technical terminology necessary for professional communication; development of the ability to independently expand knowledge and navigate large volumes of information.	Chinese language 1, 2,3, 4 Chinese Language Professional 1, 2	Chinese Language Professional 4	UVU
	BD	UC	Professional chinese language 4	60	2	8	LO2, LO8	Advanced development of professional communicative competence: improvement of translation skills, business correspondence, and oral presentations in Chinese; expansion of vocabulary in the field of specialization; study of language structures typical of scientific, technical, and business styles; enhancement of understanding of authentic texts and videos on professional topics; development of intercultural competence for effective communication in a professional environment.	Chinese language 1, 2,3, Chinese Professional Language 1, 2,3	Final certification	UVU

Professional module	BD	UC	Laws and Regulations of Logistics	90	3	5	LO3, LO8	It studies the norms of logistics legislation, rules in various logistics sectors – procurement, transportation, warehousing, loading and unloading, packaging, and distribution – with a focus on sustainable development principles, including environmental responsibility, resource efficiency, and adherence to social norms. Mastery of the discipline will enable students to apply legal knowledge to solve practical tasks in logistics, considering legal and environmental risks.	Basics of logistics	Logistics and transportation management, International Freight transportation	UVU
	BD	UC	Operations Research	120	4	6	LO12	It studies the main theories and methods of operations research for analyzing and solving practical problems, including the use of artificial intelligence tools and specialized software. The course is aimed at developing systemic and optimization thinking, enhancing logical skills, and the ability to use modern digital technologies to build and solve models in various applied fields..	Fundamentals of scientific research	Logistics project operations, Competitions and projects in the field of innovation and entrepreneurship	UVU
The module of economic and managerial competencies	BD	UC	Principles and Applications of Economics	90	3	5	LO3, LO10	The discipline is aimed at developing students' ability to apply basic economic principles to observe, analyze, and explain typical economic phenomena and problems in real life, as well as to make informed decisions in professional, academic, everyday, and entrepreneurial activities. Special attention is given to issues of digital inclusion – equal access to economic resources and opportunities in the digital economy – as well as understanding the role of digital technologies in creating fair and sustainable economic systems.	Fundamentals of financial literacy	Fundamentals of accounting, Theory and practice of cross-border e-commerce	UVU

The module of economic and managerial competencies	BD	UC	Fundamentals of Accounting	90	3	6	LO7, LO10	The discipline provides students with a comprehensive understanding of the basic concepts, principles, and methods of accounting. Students will apply key elements of accounting, including assets, liabilities, equity, revenues, expenses, and profit, as well as the fundamental assumptions and principles underlying accounting practice. Mastery of the course will help form a holistic view of the accounting structure and develop analytical thinking necessary for interpreting financial information.	Fundamentals of Financial Literacy, Principles and Application of Economics	Competitions and projects in the field of innovation and entrepreneurship	UVU
	BD	UC	Fundamentals of Chinese Business and Trade Culture	90	3	8	LO2	The discipline is aimed at providing students with basic knowledge of Chinese business and trade culture as a key element for effective interaction with partners from China in the field of logistics and international trade. The course covers the peculiarities of doing business in China, national values, business etiquette, negotiation strategies, the structure of the Chinese market, as well as the influence of traditional culture on modern business practices.	Chinese language 1,2,3, Professional Chinese language 4	Final certification	UVU
Information Technology and Artificial Intelligence Module	BD	UC	Computer and engineering modeling	180	6	1	LO2, LO8	To master the basic images of spatial shapes on a plane and teach how to work in modern modeling systems in order to develop innovative computer models. Studies spatial representation and imagination, constructive geometric thinking based on graphical models of spatial forms and practical skills in building computer models, applying them to solving real problems.	Basic school education	Information and communication technologies, Container transportation and multimodal transportation	ICT

Information Technology and Artificial Intelligence Module	BD	UC	Python programming basics	90	3	6	LO5	The discipline studies the syntax and semantics of the Python language, algorithmization and program design, program structuring and solving problems related to artificial intelligence, learns machine learning, data processing and intelligent system development methods, and analyzes the use of AI in various fields, forming professional competencies in programming and the basics of artificial intelligence.	Information and communication technologies	Digital logistics management	ICT
Information											
Practice-oriented module	BD	UC	Smart Warehouse and Distribution Management	90	3	6	LO7, LO11	The discipline covers intelligent approaches to warehouse and distribution management, considering sustainable development principles. It examines modern methods of managing warehouses, equipment, inventory, quality, and safety, as well as digital tools and systems for processing warehouse information. Distribution technologies are studied, including distribution centers, e-commerce, and small businesses, with an emphasis on efficiency, environmental sustainability, and reducing logistics costs.	Information and communication technologies ,New logistics	Logistics and transportation management	UVU
	BD	UC	Logistics and Transportation Management	120	4	7	LO10 LO12	The discipline is aimed at studying the characteristics of the main types of logistics and transportation, transaction processes, documentation handling, and the principles of planning logistics and transportation systems. Special attention is given to sustainable practices in transport logistics and the application of digital technologies to enhance efficiency, transparency, and accessibility of logistics solutions. Practical skills in transport management are developed with consideration for environmental requirements and principles of digital inclusion.	Smart warehousing and distribution management	International freight transportation	UVU

Practice-oriented module	BD	UC	International Freight Transportation	120	4	8	LO5, LO6	The course covers international freight forwarding, organization of multimodal transportation, warehousing logistics, and transshipment operations. Special focus is placed on environmentally sustainable technologies, legal regulations, and practical skills in planning and controlling freight flows within the global trade and logistics environment.	Smart Warehousing and distribution management, Logistics Project Operations, Logistics and Transportation Management	Final certification	UVU
	PD	UC						Identify the main provisions of transport support of logistics systems, in the field of transportation, covering the entire range of operations and services for the delivery of goods from producer to consumer, the principles of design and construction of logistics systems. To study methods of optimization and organization of rational cargo flows, their processing in specialized logistics centers. Methods of training are: problem solving, conducting thematic colloquiums, seminars "brainstorming". As part of the discipline implemented elements of dual learning technology	Fundamentals of logistics, Interaction in transport	International freight transportation, Logistics and transportation management	TSB
Professional module			Transport logistics	180	5	3	LO5, LO12				
	PD	UC	Procurement and Supply Chain Management	90	3	5	LO7	The discipline is aimed at acquiring theoretical knowledge and practical skills in supply chain management, as well as analyzing supply and procurement processes within a company. Students will study modern methods of strategic supply chain planning with a focus on digital technologies, including process automation, the use of digital platforms for supplier management, and supply flow optimization. The course also covers methods for selecting suppliers and managing relationships with them in the context of digitalization and globalization.	Fundamentals of financial literacy, Managerial Economics	Theory and practice of cross-border e-commerce, International logistics practice of customs clearance	UVU

	PD	UC	Logistics Systems Planning and Design	90	3	5	LO9, LO10	The discipline covers the theories and practical applications of systems thinking in the context of planning and designing logistics systems. It examines methods for evaluating and selecting logistics system schemes, including the use of information and digital platforms for effective planning and modeling. This enables the creation of sustainable and adaptive logistics systems capable of responding to the challenges of the digital age.	Computer and engineering modeling,	Operations on logistics projects. Organization and operation of China-Europe trains	UVU
	PD	UC						The discipline is aimed at teaching students the basic functions, technical parameters, and structural characteristics of logistics facilities and equipment, with an emphasis on digitalization. Students will study the application of smart technologies, automation, and the integration of IoT (Internet of Things) in logistics processes, enabling effective selection, configuration, and management of equipment. The course also covers standards and innovative approaches to optimizing the operation of logistics facilities using digital solutions to improve efficiency, sustainability, and safety.	Computer and engineering modeling,	Operations on logistics projects. Organization and operation of China-Europe trains	UVU
Professional module			Smart Logistics Facilities and Equipment	120	4	5	LO4, LO11				
	PD	UC	Logistics Project Operations	120	4	7	LO4, LO10	The discipline focuses on acquiring fundamental knowledge and skills in logistics project management with consideration of digital technologies. Students will study key theories and methods of project management, including planning, organization, implementation, monitoring, and project completion, as well as the use of digital tools for controlling project cost, quality, and timelines. Special attention is given to the implementation of automation technologies, data analysis, and digital platforms for effective management of logistics processes and optimization of project operations.	Computer and engineering modeling, Smart logistics facilities and equipment	On-the-job internship	UVU

Technology and Artificial Intelligence Module	PD	UC	Intelligent Logistics Data Analysis and Application	90	3	6	LO5, LO9	The course focuses on methods of collecting, analyzing, and interpreting logistics data using IoT, big data, artificial intelligence, and cloud technologies. Special attention is given to building intelligent logistics systems, risk management, supply chain optimization, and supporting sustainable development through data analytics.	Computer and engineering modeling, Smart logistics facilities and equipment	Digital Logistics Management On-the-job Internship	UVU
	PD	UC						The course develops managerial competencies in logistics digitalization. It covers digital platforms, logistics information systems, and tools for supply chain planning and control. Emphasis is placed on sustainable and inclusive practices, digital transformation of logistics processes, and improving the quality of customer service.	Transportation management, Smart logistics facilities and equipment	International cargo transportation, On-the-job internship, Final certification	UVU
Practice-oriented module	PD	UC	International Trade Practice	90	3	5	LO6, LO8	The course covers key mechanisms of international trade: transaction terms, contract negotiation, payment methods, documentation, and insurance. Emphasis is placed on practical trade skills aligned with sustainable development, social responsibility, ethical standards, and ensuring accessibility in global trade processes.	Smart warehousing and distribution management, Logistics project operations	Logistics and transportation management, International Freight transportation	UVU
	PD	UC	Production practice 1	150	5	6	LO1 - LO12	The main objectives of industrial practice are: consolidation of theoretical knowledge and practical skills in the chosen educational program in an industrial environment, acquisition of organizational work experience, obtaining a working specialty, formation of practical skills and competencies in the process of mastering the bachelor's program.	Interaction of modes of transport, Transportation management, Transport logistics	Industrial (pre-graduate) practice 2	UVU

Practice-oriented module	PD	UC	Industrial (pre-graduate) practice 2	150	5	8	LO1 - LO12	The purpose of the bachelor's degree program is to ensure the relationship between the theoretical knowledge gained during the assimilation of the chosen educational program and practical activities. The objectives of this practice are to consolidate and deepen the theoretical knowledge acquired by students in the learning process, collect information for writing final qualifying papers, study best practices at the enterprise, as well as gain experience in independent research, mastering a variety of scientific methods. It is conducted in the practice bases at enterprises according to this educational program.	Production practice 1	Final certification	UVU
	PD	UC	On-the-job Internship	180	6	7	LO1 - LO12	The internship provides students with the opportunity to apply their knowledge of modern logistics management in real-world conditions. The focus is on hands-on experience with digital technologies (WMS, TMS, ERP, IoT, Big Data), sustainable logistics solutions (green logistics, emission reduction, eco-friendly packaging), and digital inclusion—ensuring equal access to logistics IT systems. Students develop managerial and technological competencies necessary to work in a modern, digital, and sustainable logistics environment.	Production practice 1, 2	On-the-job internship, Final certification	UVU

Practice-oriented module	PD	UC	On-the-job Internship 2	210	7	8	LO1 - LO12	The internship provides students with the opportunity to apply their knowledge of modern logistics management in real-world conditions. The focus is on hands-on experience with digital technologies (WMS, TMS, ERP, IoT, Big Data), sustainable logistics solutions (green logistics, emission reduction, eco-friendly packaging), and digital inclusion—ensuring equal access to logistics IT systems. Students develop managerial and technological competencies necessary to work in a modern, digital, and sustainable logistics environment.	Production practice 1, 2, On-the-job internship	Final certification	UVU
The module of the additional educational program	PD	UC	Competitions and Projects in Innovation and Entrepreneurship	90	3	7	LO10	Participation in competitions and project development focused on social and environmental innovation. Students acquire entrepreneurial skills centered on inclusion, sustainability, and creating value for society, including marginalized groups.	Smart warehousing and distribution management, Theory and practice of cross-border e-commerce, Planning and design of logistics systems	On-the-job internship, Final certification	UVU
	PD	UC	Production Work Program or "Work study"	90	3	6	LO3, LO12	A practical course that combines labor activities with education, aligned with the principles of sustainable development. Emphasis is placed on creating an inclusive work environment, developing environmentally responsible behavior, and learning resource-efficient production skills.	Smart warehousing and distribution management, Occupational health and safety	On-the-job internships, Competitions and projects in the field of innovation and entrepreneurship	UVU

The module of the additional educational program	PD	UC	Social Surveys and Research. Volunteering	90	3	5	LO1,- LO12	Study of public opinion gathering and analysis methods using inclusive approaches. Students participate in volunteer initiatives aimed at supporting vulnerable groups and promoting the values of sustainable development within the community.	Sociology, Fundamentals of scientific research	Operations research, On-the-job internships, Competitions and projects in the field of innovation and entrepreneurship	UVU

Head of the Department of Transport Services and Business



Mussaliyeva R.D.