Joint stock company «ALT Mukhametzhan Tynyshpaev University»

APPROVED
the decision of the AC ALT from
«25» 04 2024 г. (Protocol № 8)
President-Rector
Amirgalieva S.N.

EDUCATIONAL PROGRAM

Name: "6 B11333 - Digital Logistics"

Level of training: undergraduate

Code and classification of areas of study: 6B113 - Transport services

Code and group of educational programs: B095 - Transport services

Ddate of registration in the register: 22.04.2022

Rregistration number: 6B11300075

UPDATED 26.04.2024

Almaty, 2024

CONTENT

1. Information about the review, approval and approval of the program, developers, experts and reviewers

DEVELOPED:

Head of the Department "Logistics and Management in Transport", Ph.D., JSC "ALiT" — Musalieva R.D.

Senior Lecturer — Alik A.R.

Senior Lecturer — Ursarova A.K.

Director of the branch of JSC "KTZ Express" - "KTZE South" — Makhtaev T. B.

Student of JSC "Academy of Logistics and Transport", group TsL-22-02 — Sarsenbay A.

EXPERTS:

Deputy Director for Automated Control System of the branch LLP "KTZ-Freight transportation" "Almaty branch of the State Enterprise" — Agmentaev G.S.

Head of the Department of Information and Communication Technologies, PhD., Associate Professor — Kasymova D.T.

REVIEWER:

Ph.D., Dean of the Faculty of Engineering and Information Technology, KNU — Kegenbekov Zh.K.

REVIEWED AND RECOMMENDED:

Meeting of the AK «Logistics and management in transport»
Protocol № 6, «_16_»_02_2024. — Kenzhebaeva G.Zh. (signature)

Meeting of the KOC-UMB «Institute of Logistics and Management»
Protocol № 7, «26» 02 2024. — Musaeva G.S. (signature)

UMC meeting
Protocol № 4a, «24» 04 2024. — Zharmagambetova M.S. (signature)

APPROVED by the decision of the Academic Council of «25» 04 2024. № 8

2. REGULATORY REFERENCES

The educational program is developed on the basis of the following legal acts and professional standards:

1. Law of the Republic of Kazakhstan "On Education" dated July 27, 2007 No. 319-III (as amended and supplemented as of March 27, 2023).
2. National qualifications framework approved by the protocol of March 16, 2016 by the Republican tripartite commission on social partnership and regulation of social and labor relations.
3. Sectoral Qualifications Framework for the "Education" sphere, approved by the Protocol of the meeting of the sectoral commission of the Ministry of Education and Science of the Republic of Kazakhstan on social partnership and regulation of social and labor relations in the field of education and science dated November 27, 2019 No. 3.
4. State obligatory standard of higher education (Order of the Minister of Science and Higher Education of the Republic of Kazakhstan dated February 20, 2023 No. 66).
5. Qualification directory of positions of managers, specialists and other employees, approved by order of the Minister of Labor and Social Protection of the Population of the Republic of Kazakhstan dated August 12, 2022 No. 309.
6. Rules for organizing the educational process on credit technology of education in organizations of higher and (or) postgraduate education, approved by Order of the Minister of the Ministry of Education and Science of the Republic of Kazakhstan No. 152 dated April 20, 2011 (with additions and changes dated April 04, 2023 No. 145).
7. The classifier of areas for training personnel with higher and postgraduate education, approved by order of the Minister of Education and Science of the Republic of Kazakhstan dated October 13, 2018 No. 569 (as amended and supplemented as of June 05, 2020).
8. The algorithm for including and excluding educational programs in the Register of educational programs of higher and postgraduate education, approved by the Order of the Minister of Education and Science of the Republic of Kazakhstan dated December 4, 2018 No. 665 (with additions and changes as of December 23, 2020 No. 536).
9. RI-ALT-33 "Regulations on the procedure for developing an educational program for higher and postgraduate education."
10. Professional standard: "Production logistics", NCE RK "Atameken", approved by order No. 256 dated 12/20/2019.
11. Atlas of new professions:Guidelines for the development of the Atlas of new professions and competencies in demand in the labor market, and the use of its results. Approved by order of the Minister of Labor and Social Protection of the Population of the Republic of Kazakhstan dated March 13, 2020 No. 90

3. PASSPORT OF THE EDUCATIONAL PROGRAM

No.	Field name	Note
1	Registration number	6B11300075
2	Code and classification of the field of education	6B11 Services
3	Code and classification of areas of study	6B113 Transport services
4	Code and group of educational programs	B095 Transport services
5	Name of the educational program	6B11333 - Digital logistics
6	Type of OP	Innovative
7	Purpose of the OP	Training of highly qualified specialists for the transport and communications industry, able to use the latest technologies in the field of management and optimization of key logistics processes, who can develop recommendations for using innovative digitalization approaches in supply chains
8	ISCED level	6
9	NQF level	6
10	ORC level	6
eleven	Distinctive features of the OP	Developed on the basis of the Atlas of new professions and competencies in demand on the labor market
	Partner university (SOP)	
	Partner university (DDOP)	
12	Form of study	full-time
13	Language of instruction	Kazakh, Russian
14	Volume of loans	240
15	Awarded Academic Degree	Bachelor in Service Education Program "6B11333 - Digital logistics»
16	Availability of an application to the license for the direction of personnel training	№KZ12LAA00025205
17	Availability of EP accreditation	
	Name of the accreditation body	
	Validity of accreditation	

4.COMPETENCE MODEL OF A GRADUATE

Objectives of the educational program:

1. Contribute to the formation of the graduate's ability to:

1) identifying and posing topical problems in the study of logistics systems at the micro- and macroeconomic levels using modern digital technologies;

2) to search for and use the information necessary for the effective performance of professional tasks, professional and personal growth;

3) application of models and methods for solving the management problems of logistics;

4) providing relevant knowledge in the scientific, methodological and economic justification of innovative (investment) projects implemented in logistics systems;

5) the formation of creative thinking and ideas about the processes of solving strategic problems of design, construction and management of logistics infrastructure facilities at the macroeconomic level.

2. Contribute to the formation of a graduate's readiness:

1) solve problems that arise in the process of creating and improving material, financial and information flows from the supplier to the consumer;

2) organize logistics processes at enterprises, solve problems associated with these processes, make decisions on the rational provision and functioning of logistics systems;

3) organize logistics chains and schemes that ensure the rational organization of the effective promotion of material flows;

4) to ensure efficient logistics activities and thereby contribute to the solution of the important socio-economic task of meeting the needs of consumers.

Learning outcomes:

LO1- Describe information and communication systems, models and methods of logistics in the management of material flows in the field of production, distribution using e-learning and mobile learning technologies, digital technology tools

LO 2 - To distinguish between different types of information and communication technologies: Internet resources, cloud and mobile services for the search, storage, processing, protection and dissemination of information, to use artificial intelligence

LO 3- Analyze the programming environment for managing traffic flows and economic indicators in the process of cargo delivery in the context of globalization of logistics systems in compliance with regulatory legal acts, apply knowledge on financial literacy

LO 4- Develop optimal schemes for transportation, interaction of modes of transport in order to ensure the safety and quality of transportation in the market of transport and logistics services

LO 5 - Develop technological processes for the operation of transport and logistics facilities with analysis, planning and control over technological processes, schemes for the delivery of goods and passengers in compliance with environmental standards and cargo properties

LO 6 - To summarize the results of the international methodology of strategic management of key business processes in digital supply chains, to evaluate critical thinking focusing on the goals of the project, competently planning and organizing actions for the effective implementation of tasks, assessing existing risks and opportunities for all parties to the interaction

LO 7 - Apply regulatory and technical documentation and specialized literature in the state, Russian and foreign languages in solving the basic laws of mathematics, logistics, transport problems in the transport and communications industry

LO 8 - Improve the reliability and sustainability of supply chains when analyzing the activities of transport enterprises, justify management decisions and evaluate results using the principles of

logistics innovation

LO 9 - Design logistics transport and cargo systems and flow processes with optimization of warehouse equipment parameters by type of cargo as an integrated digital platform

LO 10 - Offer innovative solutions in the design of logistics systems and transport and logistics infrastructure to optimize technical and technological processes in the supply chain

LO 11 - Demonstrate natural science knowledge in an interdisciplinary context to solve professional problems in the field of information systems, combining particular facts into a big picture to understand various situations of transport, economic, political, business and make long-term decisions

LO 12 - Evaluate automated production processes, excluding the human factor in the service sector, setting up software products and systems that make algorithmic decisions

Area of professional activity:professional, analytical, logistics activities related to the organization, planning, regulation, control and management of material flows in private and public institutions, the formation of effective supply chains.

Objects of professional activity:

- processes of organization and management of logistics services of enterprises and organizations of the transport industry;
- material flows, logistics chains and systems;
- accounting, reporting and technical documentation;
- primary labor collectives.

Types of professional activity:

- organizational and managerial activities;
- organization of production and technological activities;
- organization of project activities;
- organization of transport and logistics activities (by type of transport).

Functions of professional activity:

- planning, organization, management and logistics;
- Marketing and management of the industry;
- design;
- logistics service.

List of specialist positions:logistics programmer in the field of logistics management in a business environment;Logistics Manager;supply chain coordinator, integrator in the logistics activities of companies; specialists in the design and control of end-to-end digital logistics; a specialist in organizing, based on the principles of logistics, the rational interaction of modes of transport in a single transport system; specialist for managerial, analytical, and other activities in the field of logistics management; specialist in the field of logistics and operational management, supply chain management and business processes.

Professional certificates obtained at the end of trainingnot provided.

Requirements for the previous level of education:general secondary, technical and vocational, post-secondary, higher education (bachelor's degree).

In the process of learning, students undergo various types of professional practice:

educational; production; pre-diploma.

Educational practice.

During the internship, students should get an idea of the role of transport equipment in the country's economy, the variety of vehicles, the importance of mechanization and automation in increasing labor productivity, as well as an idea of the main technological processes of operation, maintenance and repair of transport equipment and technology of transport enterprises.

Industrial practice 1.

During the period of industrial practice, the student receives certain practical knowledge, skills and abilities according to the chosen educational program.

The objectives of the production practice are: deepening and consolidating the theoretical knowledge gained in the learning process; obtaining skills for the practical use of professional knowledge gained during the period of theoretical training; training in skills for solving practical and managerial problems; acquaintance with the specifics of the professional activity of a bachelor in a particular production; formation of a professional position of a specialist, style of behavior, development of professional ethics.

The tasks of industrial practice are to consolidate, deepen and systematize the knowledge gained in the study of theoretical basic and major disciplines at a particular enterprise or organization and to acquire initial practical experience.

Industrial practice 2.

The content of undergraduate practice is determined by the theme of the thesis (project). During the period of pre-diploma practice, the student collects factual material on the production (professional) activities of the enterprise (organization) and uses it in the development of the graduation project (work). The practice provides for the development of a given problem (the topic of the thesis) on the materials of the activities of a particular enterprise (organization) with the student's independent formulation of conclusions, proposals, recommendations, etc. In the process of practice, the student must demonstrate his knowledge and skills of a specialist, organizational skills, decision-making skills, performance discipline, responsibility, initiative.

final examinationis carried out in the form of writing and defending a thesis (project)or preparing and passing a comprehensive exam. The purpose of the final certification is to assess the learning outcomes and mastered competencies achieved upon completion of the study of the educational program of higher education.

The thesis (project) aims to identify and evaluate the analytical and research abilities of the graduate and is a summary of the results of the student's independent study of an actual problem in the field of the chosen specialty.The comprehensive exam program reflects integrated knowledge and key competencies that meet the requirements of the labor market in accordance with the educational program of higher education.

5. MATRIX OF CORRELATION OF LEARNING OUTCOMES IN THE EDUCATIONAL PROGRAM WITH EDUCATIONAL DISCIPLINES / MODULES

No.	Name of the discipline	Number of credits	Matrix for correlating learning outcomes in an educational program with educational disciplines											
			PO1	PO2	PO3	PO4	RO5	RO6	RO7	RO8	RO9	RO10	RO11	RO 12
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1.	History of Kazakhstan	5				+				+				
2.	Philosophy	5				+				+				
3.	Foreign language	10				+				+				
4.	Kazakh (Russian) language	10				+				+				
5.	Information-communication technologies	5		+	+									
6.	Sociology	8				+				+				
7.	Culturology	8				+				+				
8.	Political science	8				+				+				
9.	Psychology	8				+				+				
10.	Physical Culture	8				+				+				
11.	Ecology and safety and life	5					+							
12.	Scientific research methods	5											+	
13.	Fundamentals of Economics and Entrepreneurship	5			+									
14.	Fundamentals of law and anti-corruption culture	5											+	
15.	Business Mathematics 1	4				+							+	
16.	Business Mathematics 2	5				+							+	
17.	Transport management	+					+			+				
18.	Labor protection	6				+	+							
19.	Interaction of modes of transport	6	+			+								
20.	Basics of logistics	6	+			+								
21.	Economic geography of transport	6	+		+									
22.	Computer and engineering modeling	6	+	+										
23.	Information technology in logistics	6		+										+
24.	The basics of artificial intelligence	3		+										
25.	Educational practice		+	+									+	
26.	Cargo management	6					+							
27.	Cargo packing service	6									+			
28.	Passenger transportation logistics	9					+					+		
29.	Urban transport systems	9		+								+		
30.	Transport support for international transportation	6					+	+	+					
31.	Foreign economic activity in transport	6						+		+				
32.	Managerial economics	3												

No.	Name of the discipline	Number of credits	Matrix for correlating learning outcomes in an educational program with educational disciplines											
			PO1	PO2	PO3	PO4	RO5	RO6	RO7	RO8	RO9	RO10	RO11	RO 12
33.	Time management	3						+	+					
34.	Fundamentals of financial	3			+									
35.	literacy Critical thinking	3						+						
36.	Electronic services in the management of production logistics and distribution	9			+									+
37.	Logistics of production processes and distribution	9			+						+			+
38.	Business process management	6		+						+				
39.	Personnel management	6		+						+				
40.	Digital technologies in transport logistics	6			+							+		
41.	Global logistics	6			+			+				+		
42.	Digital technologies in supply chain management	6	+			+						+		
43.	Information systems in warehousing management	9		+							+			
44.	Cloud technologies and services in logistics	6		+							+			+
45.	Logistics of specialized transportation	9				+	+							
46.	Field trip 1	3												
47.	Field trip 2	4												
48.	IT infrastructure of the transport industry	6		+			+					+		
49.	Logistics infrastructure of the transport system	6		+			+					+		
50.	Artificial intelligence systems in logistics	9		+								+		+
51.	Online marketing of logistics services promotion	9		+								+		+
52.	Design of logistics systems	6					+				+	+		
53.	Design of distribution systems	6					+				+	+		
54.	Minor 1	3		+										
55.	Minor 2	3			+									
56.	Minor 3	3						+						
57.	FINAL EXAMINATION: Writing and defending a thesis	12	+	+	+	+	+	+	+	+	+	+	+	+

6. STRUCTURE OF THE BACHELOR EDUCATIONAL PROGRAM

No.	Name of cycles and disciplines	General labor intensity	
		in academic hours	in academic credits
1	2	3	4
1	**Cycle of general education disciplines (OOD)**	**1680**	**56**
1)	Required Component	1530	51
	History of Kazakhstan	150	5
	Philosophy	150	5
	Foreign language	300	10
	Kazakh (Russian) language	300	10
	Information and Communication Technologies (in English)	150	5
	Module of socio-political knowledge (sociology, political science, cultural studies, psychology)	240	8
	Physical Culture	240	8
2)	**University component and (or) elective component**	**150**	**5**
2	Cycle of basic and major disciplines (DB, PD)	5310	177
1)	**University component and (or) elective component**	1740	58
2)	**professional practice**	210	15
3	Additional types of training (VET)	120	4
1)	**Selectable Component**		
4	final examination	240	8
	Total	**7230**	**240**

7. CURRICULUM FOR THE ENTIRE STUDY

АО "ALT Университет имени Мухамеджана Тынышпаева"

УЧЕБНЫЙ ПЛАН

Форма обучения: очная

Направление подготовки: 6В113 - Транспортные услуги

Срок обучения: 3 года

Группа образовательных программ: В095 Транспортные услуги

Наименование образовательной программы: 6В11333 - Цифровая логистика

Прием: 2024 год

Степень: бакалавр в области услуг

№	Код дисциплины	Наименование циклов и дисциплин	Общая трудоемкость: в академических часах	Общая трудоемкость: в академических кредитах	Форма контроля, семестр: Экзамен	Форма контроля, семестр: КП (КР)	Всего часов	Аудиторные: лекции	Аудиторные: практические	Аудиторные: лабораторные	СРО: СРОП	СРО: СРО	1 курс: 1 (15 недель)	1 курс: 2 (15 недель)	1 курс: 3 (10 недель)	2 курс: 4 (15 недель)	2 курс: 5 (15 недель)	2 курс: 6 (10 недель)	3 курс: 7 (15 недель)	3 курс: 8 (15 недель)	3 курс: 9 (10 недель)	Закрепление за кафедрой
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1.		ЦИКЛ ОБЩЕОБРАЗОВАТЕЛЬНЫХ ДИСЦИПЛИН (ООД)																				
М1		Модуль общеобразовательных компетенций																				
1.1.	Обязательный компонент:		1530	51			1533	135	355	15	128	917	12	17	2	2	9	9	2	2	6	
1.1.1.	[illegible]	История Казахстана	150	5	2		150	30	15		8	97		5								СГДиФВ
1.1.2.	[illegible]	Философия	150	5	6		150	30	15		8	97						5				СГДиФВ
1.1.3.	[illegible]	Физическая культура	240	8	1,2,3,4		240		88		32	120	2	2	2	2						СГДиФВ
М2		Модуль языковых компетенций																				
1.1.4.	[illegible]	Иностранный язык	300	10	1,2		300		90		16	194	5	5								ЯП
1.1.5.	[illegible]	Казахский (Русский) язык	300	10	1,2		300		90		16	194	5	5								ЯП
М3		Модуль социально-политических компетенций																				
1.1.6.	[illegible]	Социология	240	8	5,6		240	7	15		8	30					4					СГДиФВ
	[illegible]	Культурология						8	15		8	29										СГДиФВ
	[illegible]	Политология						7	15		8	30						4				СГДиФВ
	[illegible]	Психология						8	15		8	29										СГДиФВ
М4		Модуль информационных технологий и искусственного интеллекта																				
1.1.7.	[illegible]	Информационно-коммуникационные технологии	150	5	5		150	30		15	8	97					5					ИКТ
1.2.	Компонент по выбору:		150	5			150	30	15	0	8	97	0	0	0	0	0	0	5	0	0	
М5		Life skills module																				
1.1.8.	[illegible]	Экология и безопасность жизнедеятельности	150	5	7		150	30	15		8	97							5			АТСиБЖД
	[illegible]	Методы научных исследований																				СГДиФВ
	[illegible]	Экономика и предпринимательская деятельность																				ЛМТ
	[illegible]	Основы права и антикоррупционной культуры																				СГДиФВ
	ВСЕГО по циклу ООД:		1680	56			1683	165	370	15	136	1014	12	17	2	2	9	9	5	0	0	
2.		ЦИКЛ БАЗОВЫХ ДИСЦИПЛИН (БД)																				
2.1.	Вузовский компонент:		1680	56			1683	240	255	45	136	968	16	11	8	12	0	3	0	6	0	
М6		Естественно-научные компетенции																				
2.1.1.	[illegible]	Бизнес математика 1	120	4	1		120	15	30		12	63	4									ОИ
2.1.2.	[illegible]	Бизнес математика 2	150	5	2		150	15	30		12	93		5								ОИ
М7		Профессиональный модуль																				
2.1.3.	[illegible]	Охрана труда	180	6	8		180	30	15	15	12	108								6		АТСиБЖД
2.1.4.	[illegible]	Основы логистики	180	6	3		180	30	30		12	108			6							ЛМТ
2.1.5.	[illegible]	Взаимодействие видов транспорта	180	6	1		180	30	30		12	108	6									ЛМТ
2.1.6.	[illegible]	Управление перевозками на транспорте	180	6	2		180	30	30		12	108		6								ОПЭТ
2.1.7.	[illegible]	Экономическая география транспорта	180	6	4		180	30	30		12	108				6						ЛМТ
М8		Модуль информационных технологий и искусственного интеллекта																				
2.1.8.	[illegible]	Компьютерная и инженерная [illegible]	180	6	1		180	30	30		12	108	6									ИКТиСМ
2.1.9.	[illegible]	Информационные технологии в логистике	180	6	4		180	30		30	12	108				6						ЛМТ
2.1.10.	[illegible]	Основы искусственного интеллекта	90	3	6		90		30		12	48						3				ИКТ
М9		Практико-ориентированный модуль																				
2.1.11.	[illegible]	Учебная практика	60	2	3		60								2							ИКТ
2.2.	Компонент по выбору:		1260	42			1260	210	183	30	84	756	0	6	3	0	5	5	15	3	0	
М7		Профессиональный модуль																				
2.2.1.	[illegible]	Грузоведение	180	6	5		180	30	30		12	108					6					ОПЭТ
	[illegible]	Сервис по упаковке грузов																				

2.2.3.	21-6-B-KV-TOMP	Транспортное обеспечение международных перевозок	180	6	7		180	30		30	12	108							6			ЛМТ
	21-6-B-KV-VDT	Внешнеэкономическая деятельность на транспорте																				
2.2.2.	22-2002031-B-KV-UBP	Управление бизнес процессами	180	6	6		180	30	30		12	108						6				ЛМТ
	22-2002031-B-KV-UP	Управление персоналом																				
2.2.1.	21-6-B-KV-LPP	Логистика пассажирских перевозок	270	9	7		270	45	45		12	168							9			ОПЗТ
	21-6-B-KV-GTS	Городские транспортные системы																				
M9	Модуль экономическо-управленческих компетенций																					
2.2.6.	21-6-B-UE	Управленческая экономика	90	3	7		90	15	15		12	48							3			ЛМТ
	21-6-B-KV-TM	Тайм-менеджмент																				
2.2.7.	24-6-B-OFG	Основы финансовой грамотности	90	3	5		90	15	15		12	48					3					ЛМТ
	24-6-B-KV-KM	Критическое мышление																				
M10	Модуль информационных технологий и искусственного интеллекта																					
2.2.4.	22-2002031-B-KV-ESUPLR	Электронные сервисы в управлении производственной логистикой и распределением	270	9	3		270	45	45		12	168			9							ЛМТ
	22-2002031-B-KV-LP	Логистика производства																				
	ВСЕГО по циклу БД:		2940	98			2940	450	435	75	204	1716	18	11	17	12	6	3	18	8	9	
3.	ЦИКЛ ПРОФИЛИРУЮЩИХ ДИСЦИПЛИН (ПД)																					
3.1.	Вузовский компонент:		1470	49			1470	210	210	0	72	768	3	0	5	6	6	3	0	21	12	
M7	Профессиональный модуль																					
3.1.3.	21-6-B-KV-GL	Глобальная логистика	180	6	8		180	30	30		12	108								6		ЛМТ
M8	Модуль информационных технологий и искусственного интеллекта																					
3.1.6.	23-6-B-KV-CTTL	Цифровые технологии в транспортной логистике	180	6	4		180	30	30		12	108				6						ЛМТ
3.1.7.	23-6-B-KV-CTUCP	Цифровые технологии в управлении цепями поставок	180	6	8		180	30	30		12	108								6		ЛМТ
3.1.8.	23-33-B-KV-ISUS	Информационные системы в управлении складированием	270	9	9		270	45	45		12	168									9	ЛМТ
3.1.5.	23-33-B-KV-OTSL	Облачные технологии и сервисы в логистике	180	6	5		180	30	30		12	108					6					ИКТ
M8	Практико-ориентированный модуль																					
3.1.4.	23-33/6-B-KV-LSP	Логистика специализированных перевозок	270	9	8		270	45	45		12	168								9		ЛМТ
3.1.9.	21-6-B-KV-PP1	Производственная практика 1	90	3	6		90											3				ЛМТ
3.1.10.	21-6-B-KV-PP2	Производственная практика 2	120	4	9		120														4	ЛМТ
3.2.	Компонент по выбору:		900	30			900	150	150	0	72	528	0	0	6	9	3	3	0	0	9	
M7	Профессиональный модуль																					
3.2.1.	23-33-B-KV-ITTO	IT инфраструктура транспортной отрасли	180	6	4		180	30	30		12	108				6						ЛМТ
	23-33-B-KV-LITS	Логистическая инфраструктура транспортной системы																				
3.2.2.	21-2002034-B-KV-PLS	Проектирование логистических систем	180	6	3		180	30	30		12	108			6							ЛМТ
	21-2002034-B-KV-PSR	Проектирование систем распределения																				
M8	Модуль информационных технологий и искусственного интеллекта																					
3.2.3.	21-33-B-KV-SIIL	Системы искусственного интеллекта в логистике	270	9	9		270	45	45		12	168									9	ИКТ
	21-33-B-KV-IMPLU	Интернет-маркетинг продвижения логистических услуг																				
	Модуль минорных программ																					
3.2.4.	24-6-B-MN1	Минорная программа 1	90	3	4		90	15	15		12	48				3						
3.2.5.	24-6-B-MN2	Минорная программа 2	90	3	5		90	15	15		12	48					3					
3.2.6.	24-6-B-MN3	Минорная программа 3	90	3	7		90	15	15		12	48						3				
	ВСЕГО по циклу ПД:		2370	79			2370	360	360	0	144	1296	0	0	6	14	9	6	0	21	22	
	ИТОГО ПО ТЕОРЕТИЧЕСКОМУ КУРСУ ОБУЧЕНИЯ (ТКО):		6930	231	0	0	6592	968	1188	90	476	4326	28	28	28	29	27	24	25	27	22	
4.	21-6-B-IA	ИТОГОВАЯ АТТЕСТАЦИЯ	240	8																	8	ЛМТ
	ИТОГО ЗА ВЕСЬ ПЕРИОД ОБУЧЕНИЯ:		7230	241									28	28	28	29	27	24	25	27	33	
5.	ДОПОЛНИТЕЛЬНЫЕ ВИДЫ ОБУЧЕНИЯ (ДВО)																					
	Модуль личностных компетенций																					
5.1.	21-6-0-DVO-SO	Служение обществу	30	1	1		30		10		8	12	1									
5.2.	21-6-DVO-Cya	Китайский язык	180	6	1,2,3		180		90		24	66	2	2	2							

СОГЛАСОВАНО:

Проректор по АД ________________ Жарылгапбетова Н.С.

Директор ДАПК ________________ Лапкова Н.А.

РАЗРАБОТАНО:

Директор института "ИТГ" ________________ Мусаева Г.С.

Заведующая кафедрой "ЛМТ" ________________ Кенжебаева Г.Ж.

8. CATALOG OF DISCIPLINES OF THE UNIVERSITY COMPONENT

EDUCATIONAL PROGRAM **6B11333 –Digital Logistics**

Education level: Bachelor's degree **Duration of study: 3 years** **Year of admission: 2024**

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						
1	2	3	4	5	6	7	8	9	10	11	12
Module 1 – Natural science competencies	BD	UC	Business mathematics 1	120	4	1	RO4 RO11	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. The discipline provides for innovative teaching methods and the implementation of calculation and graphic work.	Basic school education	Fundamentals of logistics, Economic geography of transport, Computer and engineering modeling, Design of logistics systems, Final certification	GE
	BD	UC	Business mathematics 2	150	5	2	RO4 RO11	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. The discipline provides for innovative teaching methods and the implementation of calculation and graphic work.			
Module 2 – Professional Module	BD	UC	Labor protection	180	6	8	PO4 PO5	The discipline examines the main dangerous and harmful production factors affecting workers of automobile and railway transport, during the operation and repair of rolling stock, advanced methods and technical solutions to reduce occupational injuries, improve working conditions and workplace safety, ways of organizing and managing occupational safety, fire and electrical safety, the main activities in the organization jobs. Training methods - analysis of specific situations, group discussions.	Ecology and life safety, Transportation management, Cargo management	Information systems in warehousing management, Final certification	MVLF
	BD	UC	Basics of logistics	180	6	3	RO1 RO4	The discipline studies the functional areas of logistics, and the prerequisites for the emergence and development of logistics systems to solve optimization problems in the management of material, information, and financial flows in the logistics system. Forms an idea of logistics operations, processes, and technologies of cargo delivery	Interaction of modes of transport, Business mathematics 1, Transportation management	Digital technologies in transport logistics, International transportation support, Passenger transportation logistics	LMT

Module 2 – Professional Module	BD	UC	Interaction of modes of transport	180	6	1	RO1 RO4	*The discipline studies the interaction of various modes of transport, the main methods that allow us to obtain quantitative estimates for choosing optimal solutions in management activities in transport. Acquisition of skills in organizing reasonable interaction of common and common use, with other standards of transport, organizations and enterprises.*	Basic school education	Transportation management, Labor protection, Transport support for international transportation, Logistics of specialized transportation, Logistics infrastructure of the transport system	LMT
	BD	UC	Transportation management on transport	180	6	2	RO5 RO8	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, Business mathematics 1, Computer and engineering modeling	Occupational safety, Transport support for international transportation, Logistics of specialized transportation, Logistics infrastructure of the transport system	OPET
	BD	UC	Economic geography of transport	180	6	4	RO1 RO3	The discipline studies the general characteristics of the location of transport infrastructure and productive forces of the economic regions of the Republic of Kazakhstan, demonstrates an understanding of the transport and communication system of the world and Kazakhstan, the economic geography of industries, transport and geographical relations	Interaction of modes of transport, Fundamentals of logistics, Transportation management	Fundamentals of financial literacy, Global logistics, Foreign economic activity in	LMT

								and cargo flows of transport.		transport, Information systems in warehousing management, Logistics of specialized transportation	
Module 2 Professional Module	DB	UC	Global logistics	180	6	8	RPO3 RO6 RO10	The discipline studies the terminology of Global Logistics, uses strategies and tactics for building sustainable macroeconomic systems. Reflects the formation, management and optimization of material flows. Establishes partnerships, forms of agreements, agreements, and general plans that are supported at the interstate level	International transportation support, Business process management, Management economics	Final certification	LMT
Module 3 - Information Technology and Artificial Intelligence Module	BD	UC	Computer and engineering modeling	180	6	1	RO1 RO2	The study of the discipline makes it possible to master the basic images of spatial forms on a plane and teach how to work in modern modeling systems in order to develop innovative computer models, and also contributes to the development of 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	Fundamentals of artificial intelligence, Digital technologies in transport logistics, Information systems in warehousing management, Design of logistics systems	ICT
	BD	UC	Information technology in logistics	180	6	4	RO2 RO12	The discipline uses modern information technologies to plan the production process. Teachers to choose information support and methods of modeling logistics processes when solving logistics and transportation processes.	Computer and engineering modeling , Fundamentals of logistics, Transportation management	Fundamentals of artificial intelligence, Digital technologies in supply chain management, Information	LMT

									systems in warehousing management, Design of logistics systems	
	BD	UC	The basics of artificial intelligence	90	3	6	RO2	The discipline introduces students to the basic concepts, methods and applications of artificial intelligence. The purpose of the course is to provide students with basic knowledge about the possibilities and applications of artificial intelligence in the modern world and their significance for various fields of activity	Computer and engineering modeling , Information technology in logistics, Electronic services in production management	Digital technologies in supply chain management, Digital technologies in supply chain management, Information systems in warehousing management, Artificial intelligence systems in logistics	ICT

Module 3 – Information Technology and Artificial Intelligence Module	MD	UC	Digital technologies in transport logistics	180	6	4	RO3 RO10	Studying the principles of digital technologies in the transport industry, the principles of designing and building logistics systems, the main provisions of the transport support of logistics systems covering the entire range of operations and services for the delivery of goods from the manufacturer to the consumer. Master the skills of optimizing and organizing rational cargo flows, their processing in specialized logistics centers , providing an increase in their efficiency, reducing unproductive costs and costs. Consideration of the fundamentals for the development and implementation of an innovative product and services in the information society. Within the framework of the discipline, the methodology of problematic questions is applied using a software product, the development of individual projects, guest lectures are held with an invitation from employers.	Interaction of modes of transport, fundamentals of logistics, Computer and engineering modeling, Cargo science, Transportation management,	Occupational safety, Fundamentals of artificial intelligence, Digital technologies in supply chain management, Information systems in warehousing management, Logistics of specialized transportation, Logistics engineering	LMT

Module 3 – Information Technology and Artificial Intelligence Module	MD	UC	Digital technologies in supply chain management	180	6	8	RO1 RO4 RO10	The discipline examines the basic concepts and digital technologies in supply chains, as well as advanced concepts and approaches to supply chain management. The application of structures for building and structuring SCOR models of chain offers, working with tools for service analysis of digital technology management in supply chains, ensuring long-term, medium-term and operational planning, monitoring, the use of digital technologies (big data, IoT (Internet things), cloud technologies, etc.). e) in chain management probability	Interaction of modes of transport, Computer and engineering modeling, Transportation management, Fundamentals of artificial intelligence, Information technology in logistics	Final certification	LMT
Module 3 – Information Technology and Artificial Intelligence Module	DB	UC	Information systems in warehouse management	270	9	9	RO2 RO9	Studying the principles of warehousing, classification of warehouses by functional areas of logistics, technological and logistical processes in the warehouse. The study of information platforms and software of the warehousing system, such as 1C: Enterprise - a warehouse for the formation of a warehousing system, the promotion of goods inside the warehouse, warehouse documentation, the technological process in the warehouse. Information systems in the management of warehousing will ensure that all production, trade, transport, storage and other features of the logistics service of cargo flows are taken into account and correctly display all possible	Computer and engineering modeling , Fundamentals of logistics, Transportation management	Fundamentals of artificial intelligence, Digital technologies in supply chain management, Information systems in warehousing management, Design of logistics systems	LMT

								changes. Within the framework of the discipline, elements of dual learning technology, interactive teaching methods, the calculation and analytical method, the method of case tasks, game methods are used. Formation of general functional economic and financial literacy, mastering methods and tools of economic and financial calculations for solving practical problems			
	DB	UC	Cloud technologies and services in logistics	180	6	5	RO2 RO9 RO12	Mastering the technology of creating a cloud service, working with existing cloud services, students will learn how to use cloud computing and will be ready to use cloud computing technology to solve problems of optimizing business processes. Within the framework of the discipline, interactive teaching methods, computational and analytical method, case-task method, game methods are used.	Computer and engineering modeling, Information technology in logistics, Electronic services in production management	Fundamentals of artificial intelligence, Digital technologies in supply chain management, Artificial intelligence systems in logistics, Final certification	ICT
Module 4- A practice-oriented module								The discipline studies the specifics of specialized transportation (heavy, oversized, general and dangerous goods), the conditions for placing and securing large-tonnage goods on rolling stock, the organization of loading and unloading, warehouse operations, storage conditions and transportation of dangerous goods of all classes, as well as the requirements of regulatory legal acts and regulatory and technical documentation. with the possibility of using digital technologies and a logistic approach in the transportation process, it also forms theoretical foundations and practical knowledge in the field of the process of transporting perishable goods in wagons and containers, liveliness, close to technical and technological processes in the transport and	Ecology and life safety, Transportation management, Cargo management, Labor protection, Digital technologies in transport logistics, IT infrastructure of the transport industry	Information systems in warehousing management, Final certification	LMT
	DB	UC	Logistics of specialized transportation	270	9	8	RO4 RO5				

								logistics supply chain of specialized goods. Students study the conditions of storage of perishable goods, continuous refrigeration chains of application with the use of logistics, as well as regulatory documents, legislative acts for the transportation of these goods.			

9. CATALOG OF DISCIPLINES OF THE OPTIONAL COMPONENT

EDUCATIONAL PROGRAM **6B11333 – Digital Logistics**

Level of education: bachelor's degree **Duration of study: 3 years** **Year of admission: 2024**

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						
1	2	3	4	5	6	7	8	9	10	11	12
Module 1 – Life skills module	OOD	HF	Ecology and life safety	150	5	1	RO5	The discipline provides knowledge and ideas about environmental problems and approaches to solving them, sources and types of environmental pollution by enterprises, the principles of regulating the quality of atmospheric air and water, the main provisions of legislation in various fields, natural and man-made emergencies, their causes, methods of prevention and protection. Teaching methods - analysis of specific situations (case-study), group discussions.	Labor protection, International transportation support, Production logistics, Transport logistics	Logistics of specialized transportation, Artificial intelligence systems in logistics Final certification	SHDPE
	OOD	HF	Scientific research methods	150	5	1	RO11	The discipline provides knowledge and ideas about the content of scientific activity, its methods and forms of knowledge. The theoretical and applied knowledge obtained by students on the methods of scientific	Engineering Mathematics, Fundamentals of Financial literacy	Multimodal transportation systems, IT infrastructure	MVLS

							research of problems in the studied area, instills in future specialists, cognitive skills in the field of science. Methods of active learning - group, scientific discussion, dispute, project method.		of the transport industry, Digital technologies in supply chain management, Final certification	
	OOD	HF	Economics and business activities	150	5	7	RO3	Studies the activities of enterprises in various types of market, the model of equilibrium and functioning of the market, state regulation of prices and tariffs. Examines the concept of entrepreneurship and the limits of its legal regulation, the conditions for the development of entrepreneurship, organizational and legal forms of doing business, business planning, business secrecy, social responsibility of entrepreneurship.	Economic geography of transport, Fundamentals of financial literacy, Business process management	Warehouse logistics, Global Logistics, Final certification	LMT

	OOD	HF	Basics of law and anti-corruption culture	150	5	7	RO11	The discipline outlines the fundamental concepts of law, the constitutional structure of the state power of the Republic of Kazakhstan, the rights and freedoms of citizens enshrined in the Constitution, the mechanism and protection of legitimate human interests in case of their violation. The discipline forms students' improvement of public and individual legal awareness and legal culture, as well as a system of knowledge and citizenship on combating corruption as an antisocial phenomenon. Methods of active learning - analysis of specific situations, brainstorming.	Sociology, Political Science, Psychology, Cultural Studies, History of Kazakhstan	International transportation support ,Online marketing of logistics services promotion	MVLS
Module 2- Professional module	DB	HF	Cargo management	180	6	5	RO5	Study of cargo properties and conditions of their transportation, cargo transport classification, factors affecting cargo, cargo transport characteristics affecting the organization of transportation, organization of measures to ensure safety during transportation and storage. Mastering the skills of cargo quality assessment and methods of determining the impact of cargo transport characteristics on the organization of transportation. Within the framework of the discipline, interactive teaching methods, the method of case tasks are used.	Engineering Mathematics Interaction of modes of transport, Transportation management	Occupational safety, Transport support for international transportation , Logistics of specialized transportation , Logistics infrastructure of the transport	OPET

			Cargo packing service	180	6	5	RO9	To study the properties of containers and packaging, based on the characteristics, operating conditions and manufacturing; determine the types of materials for the production of containers and packaging; summarize information about the environmental aspect of packaging, packaging safety (environmental requirements). To form an idea about the technology of cargo handling in the warehouse, the containers and packaging used, packages, as well as labeling. Within the framework of the discipline, interactive teaching methods, the method of case-tasks are used.		system	LMT
	DB	HF	Transport support for international transportation	180	6	7	RO 5 RO 6 RO 7	Study the terms and conditions of Incoterms, International conventions, regulations in the field of international transportation at the stages of building and implementing a logistics delivery system from places of departure to places of destination. Determine and select the basic terms of delivery, build schedules of technological operations at border crossings. Within the framework of the discipline, laboratory classes are held, software for foreign economic activity, Rail Tarif, Rail info, etc. are used	Interaction of modes of transport, Cargo management, Transportation management, IT infrastructure of the transport industry, Design of logistics systems	Occupational safety, Global logistics, Digital technologies in supply chain management, Information systems in warehousing management, Logistics of specialized transportation	LMT
	DB	HF	Foreign economic activity in transport				RO 6 RO 8	The discipline studies the basics of foreign economic activity, the concepts of export-import, re-export-reimport of goods, the terms and conditions of Incoterms, the basics of customs legislation and legal regulation of foreign economic activity at the stages of building and implementing a			LMT

							logistics delivery system from the point of departure to the destination. destination. Develops the skills of customs clearance of goods and cargo transportation, determining the terms of delivery of goods in purchase and sale agreements.			
	DB	HF	Business Process Management	180	6	3	RO2, RO8	The business processes of enterprises of various sectors of the economy are studied, methods and models for building and analyzing business processes, the need for its rational organization are considered. Basics of building their features and applications. Modern approaches to the management of the organization. Practical skills in the field of business process management are given..	The basics economics and Entrepreneurship , Research methods, Transportation management, Fundamentals of logistics	Time management, Managerial Economics, Digital technologies in supply chain management, Global logistics, Information systems in warehousing management	LMT
			Personnel Management				RO2, RO8	The theoretical foundations of personnel management at enterprises of various forms of ownership, the organization of the personnel service, the maintenance of basic personnel documentation in accordance with the current legislation of the Republic of Kazakhstan are considered. Functional division of labor and organizational structure of the personnel management service. Active learning methods: business and role-playing games, brainstorming, case studies			LMT
	DB	HF	Logistics of passenger transportation	270	9	7	RO5, RO 10	The discipline is aimed at studying transport logistics and route technology of passenger transportation, the principles of their organization and management, logistics of suburban and urban passenger transport and high-speed transportation. The student will form an idea about the organization of	Research methods, Interaction of modes of transport, Transportation	Occupational safety, Digital technologies in supply chain management,	OPET

								passenger stations and train stations, the automated control system "Express".	management, Design of logistics systems	Global logistics, Artificial intelligence systems in logistics	
			Urban transport systems				RO2, RO 10	The discipline forms the theoretical and practical foundations of the functioning of transport systems, taking into account indicators, analysis of the state of transport security of cities and regions. Identifies the problems of the development of urban transport networks, passenger transport, transport infrastructure that meets modern requirements in the field of communications and technology. It provides for the development of vehicle routes and schedules for the coordination of traffic schedules.			OPET
Module 3 - The module of economic and managerial competencies	DB	HF	Managerial Economics	90	3	7	RO3, RO10	Formation of the conceptual apparatus and development of skills of economic analysis using modern models and patterns of economic science, consideration of economic problems and challenges facing the head of the firm. The study of this discipline will allow students to obtain and develop knowledge in the field of analytical research of economic, technological and technical parameters of the enterprise, as well as allow you to master the skills of using special methods of economic justification of management decisions and assessment of their consequences..	The basics economics and entrepreneurship , Research methods, Transportation management, Design of logistics systems	Digital technologies in supply chain management, Global logistics, Information systems in warehousing management	LMT
			Time - management				RO6, RO7,	The discipline studies a system of methods, tools and approaches that are aimed at effective time management in order to achieve set goals. The course is designed to improve skills in organizing and optimizing the use of working time, increasing			LMT

								productivity, reducing stress, planning, delegation, using tools and technologies, as well as knowing your time and energy rhythms in order to use your time effectively.			
	DB	HF	Fundamentals of financial literacy	90	3	5	RO3	Formation of general functional economic and financial literacy, mastering methods and tools of economic and financial calculations for solving practical problems	The basics economics and entrepreneurship, Research methods, Transportation management	Management economics, Digital technologies in supply chain management, Global Logistics, Information systems in warehousing management	LMT
			Critical thinking				RO5,	The discipline studies the forms and techniques of rational cognition, the creation of a general idea of logical methods and approaches used in the field of professional activity, the formation of practical skills of rational and effective thinking.			LMT
Module 4 - Information Technology and Artificial Intelligence Module	DB	HF	Electronic services in the management of production logistics and distribution	270	9	3	RO3, RO12	The discipline provides in-depth formation of the concept, tasks and functions of production and distribution logistics, factors determining the structure of the intra-production system: pulling and pushing logistics systems. Acquisition of skills in integrating MRP-2, Lean Production, ERP, CSRP, just-in-time, Kanban, CRM logistics systems into manufacturing enterprises and performing calculations for making management decisions and interacting with customers. The discipline also involves students mastering innovations and new technologies for effective management of production logistics.	Interaction of modes of transport, fundamentals of logistics, Cargo science, Transportation management	Occupational safety, Information technology in logistics, Digital technologies in supply chain management, Information systems in warehousing management, Logistics of specialized transportation	LMT
			Logistics of production				RO3, RO9,	The study of the principles of distribution logistics, the theoretical foundations of			LMT

			processes and distribution				RO12	distribution in logistics, logistics and marketing, distribution channels of goods. Production logistics is designed to solve problems related to ensuring high-quality, timely and complete production of products. Studying the ways of developing and equipping end-to-end logistics processes in the system "production - transportation - storage - supply" Within the framework of the discipline, interactive teaching methods, the method of case tasks, gamifications are used. Examination is in the form of testing		, Design of logistics systems	
	PD	HF	Artificial intelligence systems in logistics	270	9	8	PO2 PO10 PO12	Learning key business concepts, entrepreneurial skills and knowledge of logistics solutions and e-business strategies, planning and internet marketing, web application development, strategic planning, product and service design and development through market analysis, logistics, online business model building. Within the framework of the discipline, interactive teaching methods, the calculation-analytical method, the case-task method, game methods are used. Form of control - individual project.	Computer and engineering modeling, Information and communicatio n technologies, Electronic services in the management of production logistics and distribution	Information systems in warehousing management Final certification	IKT
	PD	HF	Online marketing of logistics services promotion	270	9	8	RO 2, RO10 RO12	Formation of a set of competencies for future specialists in the use of marketing tools directly or indirectly related to the Internet when promoting a website, analyzing the market and competitive environment to ensure stable development and sustainable growth of a company or enterprise. When studying the discipline, interactive teaching methods, case studies,	Computer and Engineering modeling, Fundamentals economics and Entrepreneurs hip, Time management,	Information systems in warehousing management Final certification	IKT

								and discussion are used. Within the framework of the discipline, field classes are provided to the branch of the department and guest lectures by top managers.	Transportation management, Logistics systems design		
Module 5 – Profile module	PD	HF	IT infrastructure of the transport industry	180	6	4	RO2, RO5, RO10	To study and evaluate the development of the transport infrastructure of all types of transport using innovative IT technologies to solve the problem of innovative management in the process of introducing innovative technologies in transport and logistics infrastructure using innovative IT technologies, software such as automated control systems, 1C: Enterprise, Microsoft SQL Server DBMS 7.0 etc. for transport management. As part of the study of the discipline, guest lectures are held by leading top managers of transport companies, IT specialists in the transport industry, solving and analyzing situational problems.	Interaction of modes of transport, Fundamentals of logistics, Cargo management, Transportation management, Electronic services in the management of production logistics and distribution	Occupational safety, Digital technologies in supply chain management, Information systems in warehousing management, Logistics system design, Artificial intelligence systems in logistics	LMT
			Logistic infrastructure of the transport system				RO2, RO5, RO10	Studying the basic principles of designing logistics infrastructure, terminal technologies of the transport system. Describes the organization of production, profile, specialization and features of transport infrastructure facilities. Forms in students the skills of documenting decisions in the management of the operational activities of organizations when introducing new elements of the transport and logistics infrastructure by mode of transport.			LMT
	PD	HF	Design of logistics systems	180	6	6	PO5 PO9 PO10	Study of the basic principles of logistics systems design, system approach and system analysis in design. Perform	Interaction of modes of transport,	Occupational safety, Digital	LMT

								modeling of objects and subjects of management in logistics systems using CorelDRAW and AutoCAD software products. To study the criteria for the quality and efficiency of logistics systems, methods and algorithms for designing logistics systems at the micro and macro levels, to form their organizational structure with optimization of design solutions and evaluation of effectiveness and efficiency. Calculation and design of logistics system links is carried out by means of computer technologies (Excel, Mathcad, AutoCAD, Revit, SCAD).	Transportation management, Electronic services in the management of production logistics and distribution, Information technology in logistics	technologies in supply chain management, Information systems in warehousing management, Artificial intelligence systems in logistics	
			Design of distribution systems	180	6	6	PO5 PO9 PO10	Studying the tasks of coordinating and optimizing the functioning of the distribution system for products and services: designing and building programs for the production, supply and marketing of finished products, types of intermediaries in distribution channels. Consider the elements of the commodity distribution network of the region, regional distribution centers with the location of the logistics center, types of deliveries and technological schemes of transportation. Within the framework of the discipline, active learning methods are used - conversation, role-playing, case tasks. The form of assessment is a combined examination in the form of an oral and written survey.			LMT

10. EXPERT OPINIONS

EXPERT OPINION
for the educational program 6B11333 - Digital Logistics

Undergraduate educational program 6B11333 - Digital Logistics was developed in accordance with the National Qualifications Framework and professional standards, agreed with the Dublin descriptors and the European Qualifications Framework, the Atlas of new professions and competencies in demand on the labor market, and was also designed on the basis of a modular system for studying basic and major disciplines ,forming general cultural, special language and professional competencies.

Digitalization as a process underlies the digital economy. Digitalization makes it possible to use the latest technologies for better and faster operations, and also allows the use of technology for logistics activities.

The education process is open, constantly improving taking into account the needs of the labor market, wishesstudents, experts, business communities and is to achieve a high quality of educational services in the field of logistics in general through the implementation of the principles of the Bologna process and modern international quality standards.

When developing a curriculum for an educational program, a specific interdisciplinary relationship is traced, which consists in a complex relationship between the content of academic disciplines, through which the internal unity of the training program for future specialists is achieved.

When developing the educational program, new disciplines were introduced with the study of digital technologies in logistics, which are in demand by time and need in modern conditions, various factors are used to build the structure of relationships and identify priority areas for solving problems in the field of globalization of logistics processes in supply chain management, analysis of solution options logistics operations in management and distribution.

Based on the analysis, it can be concluded that the educational program 6B11333 - Digital Logistics submitted for examination meets the qualification requirements of higher education and is recommended for active implementation in the educational process.

Director of the branch of JSC "KTZ Express" - "KTZE South" **Makhtaev T. B.**

EXPERT OPINION
for a bachelor's degree program
6B11333 – Digital logistics

The goal of the educational program 6B11333 – Digital Logistics is to train specialists with a high level of professional culture, capable of independently formulating and solving modern theoretical and practical issues in the field of digitalization, and successfully implementing the acquired knowledge in production.

The objectives of the educational program are to provide and master knowledge that guarantees professional mobility of fundamental courses at the intersection of related disciplines; acquiring skills to participate in events at various levels, continuing training in master's programs; obtaining the necessary amount of knowledge in the field of transport law, procedures for customs clearance of goods and services; in the field of organizing the movement of goods across state borders, gaining practical experience in production practice.

The individuality and uniqueness of the educational program 6B11333 - Digital logistics lies in the presence of meaningful trajectories developed in accordance with the requests of national transport companies; in the practical application of knowledge, innovative methods and technologies, the acquisition of future specialists with professional competencies necessary for the implementation of job functions and responsibilities in the future.

The content of the educational program includes organizational and managerial activities in the field of digital logistics; organization of production and technological activities; organization and management of transport enterprises by mode of transport.

The results of mastering the educational program are determined by the competencies acquired by the graduate, i.e. his ability to apply knowledge, skills and personal qualities in accordance with the tasks of professional activity.

Based on the above, I believe that the content, structure and quality of the educational program 6B11333 – Digital Logistics meet the qualification requirements and are recommended for implementation in the educational process.

Deputy Director for ACS of the branch
KTZ Freight Transportation LLP
Almaty branch of the State Enterprise" **Agmentaev G.S.**

EXPERT OPINION

for the Bachelor's degree program
6B11333 – Digital logistics in the field of training
B095 –Transport services

The content of the educational program 6B11333 – Digital Logistics includes the introduction of a digital logistics system that provides benefits for all participants: reduces the time for paperwork; optimizes communication and resolution of any delivery issues; reduces the additional price of goods; improves the quality of goods by preventing possible damage; allows you to quickly respond to demand, which it is especially important when introducing a new product to the market; optimizes the use of equipment, transport; ensures efficiency and safety of work; reduces the time of delivery of goods to the end user.

This educational program provides guaranteed professional mobility of fundamental courses at the junction of related disciplines; acquisition of skills to participate in events of various levels, continuing education in master's and doctoral studies.

When developing the innovative educational program 6B11333 – Digital Logistics, a logical system for building a sequence of disciplines based on an Atlas of new professions and competencies in demand in the labor market and professional standards is clearly traced, which is the key to successful training of specialists with a high level of professional culture who are able to independently formulate and solve modern theoretical and practical issues, successfully implement the acquired knowledge in the field of his activity.

The form and content of the educational program does not raise doubts about the quality of training of future specialists in the organization, planning, support and control of cargo delivery, foreign economic activity in the management of business processes in transport.

I believe that the direction of training future specialists according to the above–mentioned educational program 6B11333 - Digital logistics is relevant and meaningful, has a clearly structured development system, and can be recommended for implementation in the educational process.

Head of the Department of Information and Communication Technologies, PhD, Assict.Professor ALT University _____ **Kasymova D.T.**

ПОДПИСЬ ЗАВЕРЯЮ

11. REVIEWER'S CONCLUSION

REVIEW

for the educational program 6B11333 - Digital logisticsin the direction of preparation B095 - Transport services

Educational programs should reflect competencies that are aimed at the ability to practically use the knowledge, skills and abilities acquired in the learning process in professional activities.

Bachelor's educational program 6B11333 - Digital Logistics provides conditions for the qualitative mastery of professional skills in the field of digital logistics, the provision of automated transport services, the theoretical and practical training of future bachelors for the transition to the second and third stages of postgraduate education (Master's, PhD doctoral studies), contributing to the formation competitive professionals in the labor market.

The implementation of the educational program 6B11333 - Digital Logistics is carried out through a strict sequence of studied disciplines such as: "Fundamentals of Logistics - Transport Logistics", Digital Technologies in Transport Logistics, Digital Technologies in Supply Chain Management, Cloud Technologies and Services in Logistics, Business Process Management, Electronic Services in the management of production logistics and the distribution of new professions and competencies that are in demand on the labor market, professional standards developed on the basis of the Atlas, with the establishment of specific tasks and target indicators in order to ensure human resources in the field of transport services.

The uniqueness of the educational program 6B11333 - Digital Logistics lies in the presence of meaningful trajectories developed in accordance with the requests of national transport companies; in the practical application of knowledge, innovative methods and technologies, the acquisition of future specialists of professional competencies necessary for the future implementation of job functions and responsibilities in the industry.

Based on the foregoing, I believe that the content, structure and quality of the educational programmeet the requirements of the educational program being implemented,has a holistic structure, and is recommended for active implementation in the educational process.

Reviewer:
Candidate of Technical Sciences, Professor,
Dean of the Faculty
engineering and information
technologies, KNU **Kegenbekov Zh.K.**

12. LETTERS OF RECOMMENDATION

Letter of recommendation
for a bachelor's degree program
6B11333 – Digital logistics

Bachelor's degree program 6B11333 – digital logistics developed in accordance with the National Qualifications Framework and professional standards, coordinated with the Dublin descriptors and the European Qualifications Framework, designed on the basis of a modular system for studying basic and core disciplines that form general cultural, special language and professional competencies.

The process of managing the educational program is open, constantly being improved taking into account the needs of the labor market, the wishes of students, experts, business communities and is to achieve high quality educational services in the field of customs and transport law through the implementation of the principles of the Bologna process and modern international quality standards.

When developing an educational program, it is necessary to take into account modern requirements for training specialists in the field of transport services (digitalization, transport logistics, customs logistics), in the interests of transport and logistics companies providing all types of transportation services

The form and content of the educational program does not raise doubts about the quality of training of future specialists in matters of organization, planning and control over the procedures of customs escort of goods, state regulation and foreign economic activity.

Based on the analysis, we can conclude that the educational program 6B11333 – digital Logistics submitted for examination meets the qualification requirements of higher education and is recommended for active implementation in the educational process.

Director
«Rtel Group» LLP **Moldasanov E.S.**

13. MINUTES OF REVIEW AND APPROVAL

Академия Логистики и Транспорта

Выписка из протокол № 6
заседания кафедры
«Логистика и менеджмент на транспорте»

город Алматы 16.02.2024 г.

Председатель: Кенжебаева Г.Ж
Секретарь: Маулина Н.Х

Присутствовали: директор института Мусаева Г.С, зав. кафедрой «ЛМТ» Кенжебаева Г.Ж., профессор: Жанбиров Ж.Г., ассоцированный профессор Мусалиева Р.Д., ассистент-профессоры: Мусабаев Б.К., Ахметжанова А.Х, Маулина Н.Х., Сугурова А.Ж., Шакиртханов Б.Р., Токтамысова А.Б., сениор-лекторы: Бадамбаева С.Е, Усербаева А.С., Елешева Ж.Б., Урсарова А.К., Алик А.Р, Байбусинова М.А., ассистент-преподпватель Игенбаева Ш.А.

Представители с производства:

1. По ОП бакалавриата:

- Тантакова С.И. - АО "НК"КТЖ", Дирекция автоматизации и цифровизации, ведущий инженер АСУ;
- Суванбаева Ф.Г. - ТОО "НИИТК", начальник отдела управления проектами;
- Махтаев Т.Б. - АО «KTZ Express» -«KTZE Южный», директор филиала;
- Токанов Д.Б. - ТОО «Алматинское бюро по сертификации», директор;
- Макашева Ж.А- ТОО «Aimahanbet, директор;
- Шурманов А.К - ТОО «Экоэнерго газ», директор

2. По ОП магистратуры:

- Мухаев Е. Генеральный Секретарь CILT Central Asia,
- Кошумбаева Ж.Ж- сертифицированный профессиональный бухгалтер РК, аудитор РК. Аудитор в газовой компании ТОО Satory Company LTD
- Ахметова Р.К. Директор филиала международной транспортно-логистичкской компании ТОО “Ахметова Р.К. Директор филиала международной транспортно-логистичкской компании ТОО “AsstrA Almaty»
- Куанышбек А.Б- зам директора ГП КТЖ «Грузовые перевозки»

3. Обучающиеся: Тойбаев Н.Р. - студент 1 курса, гр. УС-ТЛ-22-2, Сарсенбай А. - студент 1 курса, гр. ЦЛ-22-2, Махметова Н - студент 3 курса, гр. ТЛ-22-2, Орлеанский А.А. - магистрант 2 г.о., гр. МН-Л-22-1; Иманбаев Д. - магистрант 1 г.о., гр. МН-Л-22-2., Токенова А - студент 4 курса, студент группы УУО-20-1, Тайғожа Г - студент 2 курса, группы ЭиМ - 32-1.

ПОВЕСТКА ДНЯ:

3.О подготовке документов по специальности для участия в рейтинге образовательных программ 2024 года

4. Разное

По третьему вопросу повестки дня **СЛУШАЛИ**: заведующую кафедрой «ЛиМТ» Кенжебаеву Г.Ж., предложила рассмотреть новые разработанные ППС и совместно с работодателями образовательные программы по бакалавриату и магистратуре, а также увеличение кредитов дисциплинам и сократить обучение до 3-х лет на прием 2024 года.

ВЫСТУПИЛ: представитель работодателей Мухаев Е. Генеральный Секретарь CILT Central Asia, предложил в силу специфики организаций работодателей отразить в объектах профессиональной деятельности следующее: скорректировать описание дисциплин компонентов по выбору, дать четкость понимания дисциплины, какие компетенции необходимо изучить обучающимся, чем должен владеть, знать и уметь делать.

ВЫСТУПИЛА: к.т.н., ассистент-профессор Ахметжанова А.Х., которая предложила увеличить количество кредитов по профилирующим дисциплинам, тем самым укрупнить дисциплины, связать несколько дисциплин которые позволили бы последовательно изучить все в одной дисциплине.

ВЫСТУПИЛА: зав. кафедрой «ЛиМТ» Кенжебаева Г.Ж., с предложением заслушать представителей работодателей и обучающихся по включению новых дисциплин в КЭД и РУП приема 2024 г.

ВЫСТУПИЛ: представитель работодателей Шакиртханов Б.Р. на сегодня любое коммерческое предприятие заинтересована в грамотных специалистах, имеющих хороший уровень подготовки и знаний в области планирования, организации и контроля за движением грузов по видам транспорта.

Вносим предложения о внесении в РУП бакалавриата следующие дисциплины, раскрывающие потребность работодателей такие как: «Электронные сервисы в управлении производственной логистики и распределения», «Контейнерные перевозки и технологии», «Цифровые технологии в управлении цепями поставок».

ВЫСТУПИЛИ: обучающиеся Махметова Н: Считаю необходимым включить в изучение дисциплин программный продукт AUTOCAD. Очень хотелось бы научиться проектировать и масштабировать свои знания на производстве.

По ОП 6В11330 – Транспортная логистика: Электронные сервисы в управлении производственной логистики и распределения, Контейнерные перевозки и технологии, Цифровые технологии в управлении цепями поставок.

По ОП 6В11333-Цифровая логистика: Информационные системы и управлении цепями поставок, Системы искусственного интеллекта в логистике.

По ОП 6В11368 - Международная логистика;

По ОП 6В04142-Экономика и менеджмент (по отраслям): Математика для бизнеса и экономики, Международный бизнес;

По ОП 6В11328– Управление услугами в отрасли: Управление бизнес процессами;

По ОП 6В 04144 - Электронная коммерция: Нейромаркетинг;

По ОП 6В 04125 - Маркетинг и бизнес аналитика: (Web программирование);

По ОП 7М04166-Экономика и менеджмент (профильная - 1,5) и научно-педагогическая - 2 года): Финансовый менеджмент;

По ОП 7М04166- Маркетинг и бизнес аналитика: Управленческий консалтинг;

По ОП 7М04167 – Экономика и менеджмент (научно-педагогическая): Управление данными, Риск менеджмент

По ОП 7М04170 - EMBA (Деловое администрирование):правовая среда бизнеса;

По ОП 7М04171 - MBA (Деловое администрирование в логистике): Моделирование и прогнозирование логистических процессов в цепях поставок, Моделирование сетей распределения и управление заказами (e-Fulfilment), Локальные информационные системы (WMS/TMS) поддержки операционной логистики.

7М11374 - Управление цепями поставок: Моделирование и оптимизация логистических бизнес-процессов, Цифровая трансформация в цепях поставок,

Интегрированное планирование и прогнозирование цепей поставок с применением Big Data и цифровых технологий, Экономический анализ управления цепями поставок.

ПОСТАНОВИЛИ:

1. Предоставить новые образовательные программы по бакалавриату и магистратуре для рассмотрения и утверждения на Совете института «Логистика и управление».
2. Утвердить предложенные дисциплины работодателями внести Учебный план бакалавриата и магистратуры.
3. Учесть и внести в силлабусы дисциплин проводимые в практических и лабораторных занятиях программный продукт AUTOCAD.

Председатель _____ **Кенжебаева Г.Ж.**

Секретарь _____ **Маулина Н.Х.**

Академия логистики и транспорта

Выписка из
ПРОТОКОЛ № 7

Заседания Комиссии по обеспечению качества – Учебно-методического бюро (КОК УМБ) института «Логистика и управление»

г. Алматы «26» февраля 2024 года

Председатель: Мусаева Г.С.
Секретарь: Урсарова А.К.
Присутствовали: члены КОК-УМБ, председатель КОК-УМБ ИЛУ, директор института, д.т,н., профессор Мусаева Г.С., сениор-лектор кафедры «ЛиМТ», заместитель директора по учебно-методической работе Бадамбаева С.Е., сениор-лектор кафедры «ЛиМТ», заместитель директора по воспитательной работе Алик А., зав.кафедрой «ЛиМТ» ассоциированный профессор Кенжебаева Г.Ж., зав.кафедрой «ОПЭТ», ассоциированный-профессор Биттилеуова З.К.; ассоциированные профессор кафедры «ОПЭТ» Вахитова Л.В.; к.э.н., ассоциированный профессор кафедры «ЛиМТ» Ахметжанова А.Х., PhD, ассистент профессор кафедры «ОПЭТ» Бекмагамбетова Л.К., сениор-лектор «ЛиМТ», секретарь КОК-УМБ ИЛУ Урсарова А.К., сениор-лекторы: Нуржаубаев М.М; Байбусинова М.А,

Представители с производства: Начальник отдела "Управление проектами" ТОО " НИИТК" Суванбаева Ф. Г., Специалист по работе с клиентами по жд перевозкам ТОО «CMA CGM Logistics Central Asia» Коржумбаева С.Т,
Обучающиеся: студенческий декан ИЛУ Марупжанов И., обучающийся группы МН-Л-23-1 Калтаева Д.

ПОВЕСТКА ДНЯ:

2. Обсуждение обновленных образовательных программ на 2023-24 учебный год

2. По второму вопросу
СЛУШАЛИ: председателя КОК-УМБ ФЛУ Мусаеву Г.С., об обсуждении обновленных образовательных программ.
ВЫСТУПИЛИ: заведующая кафедрой «ЛиМТ» Кенжебаева Г.Ж.. заведующая кафедрой «ОПЭТ» Бителеуова З.К, ответственные за комитет «Разработка, мониторинг и контроль образовательных программ» по своим кафедрам. В настоящее время кафедрой ведется активная работа по обновлению и актуализации. Образовательных программ «Транспортная логистика», «Цифровая логистика», «Управление услугами в отрасли», на основании обновленных Профессиональных стандартов. Проведен сравнительный анализ казахстанского и международного опыта проектирования и реализации ОП.
ВЫСТУПИЛ: Начальник отдела "Управление проектами" ТОО " НИИТК" Суванбаева Ф. Г. на сегодня любое коммерческое предприятие заинтересована в грамотных специалистах, имеющих хороший уровень подготовки и знаний в области планирования, организации и контроля за движением грузов по видам транспорта.
Вносим предложения о внесении в РУП бакалавриата следующие дисциплины, раскрывающие потребность работодателей такие как: «Электронные сервисы в управлении производственной логистики и распределения», «Контейнерные перевозки и технологии», «Цифровые технологии в управлении цепями поставок»..
ВЫСТУПИЛ: Специалист по работе с клиентами по жд перевозкам ТОО «CMA CGM Logistics Central Asia» Коржумбаева С.Т., предложила в силу специфики организаций работодателей отразить в объектах профессиональной деятельности следующее: скорректировать

описание дисциплин компонентов по выбору, дать четкость понимания дисциплины, какие компетенции необходимо изучить обучающимся, чем должен владеть, знать и уметь делать.

ВЫСТУПИЛА: к.т.н., ассоц профессор кафедры «ОПЭТ» Вахитова Л.В., которая предложила увеличить количество кредитов по профилирующим дисциплинам, тем самым укрупнить дисциплины, связать несколько дисциплин которые позволили бы последовательно изучить все в одной дисциплине

ВЫСТУПИЛА: профессор кафедры «ЛМТ» Мусалиева Р.Д. о необходимости включить в изучение дисциплин программный продукт AUTOCAD проектировать и масштабировать свои знания на производстве.

По ОП 6В11330 – Транспортная логистика: Электронные сервисы в управлении производственной логистики и распределения, Контейнерные перевозки и технологии, Цифровые технологии в управлении цепями поставок.

По ОП 6В11333-Цифровая логистика: Информационные системы и управлении цепями поставок, Системы искусственного интеллекта в логистике.

По ОП 6В11368 - Международная логистика;

По ОП 6В04142-Экономика и менеджмент (по отраслям): Математика для бизнеса и экономики, Международный бизнес;

По ОП 6В11328– Управление услугами в отрасли: Управление бизнес процессами;

По ОП 6В 04144 - Электронная коммерция: Нейромаркетинг;

По ОП 6В 04125 - Маркетинг и бизнес аналитика: (Web программирование);

По ОП 7М04166-Экономика и менеджмент (профильная - 1,5) и научно-педагогическая - 2 года): Финансовый менеджмент;

По ОП 7М04166- Маркетинг и бизнес аналитика: Управленческий консалтинг;

По ОП 7М04167 – Экономика и менеджмент (научно-педагогическая): Управление данными, Риск менеджмент

По ОП 7М04170 - EMBA (Деловое администрирование):правовая среда бизнеса;

По ОП 7М04171 - MBA (Деловое администрирование в логистике): Моделирование и прогнозирование логистических процессов в цепях поставок, Моделирование сетей распределения и управление заказами (e-Fulfilment), Локальные информационные системы (WMS/TMS) поддержки операционной логистики.

7М11374 - Управление цепями поставок: Моделирование и оптимизация логистических бизнес-процессов, Цифровая трансформация в цепях поставок, Интегрированное планирование и прогнозирование цепей поставок с применением Big Data и цифровых технологий, Экономический анализ управления цепями поставок.

ВЫСТУПИЛА: PhD, ассистент профессор кафедры «ОПЭТ» Бекмагамбетова Л.К, которая рассказала о сравнительном анализе казахстанского и международного опыта проектирования и реализации ОП, по результатам было выявлено, что:

- Naming ОП не в полной мере соответствуют международной практике, что влияет на продвижение в международных рейтингах (QS by subject /THE by subject и др.)

- Количество дисциплин превышает почти в 2 раза: вузы РК - 65-70; ведущие зарубежные вузы: 30-35

- Объем дисциплин составляет 2-5 академических кредитов, в ведущих зарубежных вузах - 10-20 академических кредитов

В связи с этим главный упор делается на уменьшение количества дисциплин путем их объединения в количестве 6 и 9 кредитов. Также уделяется особое внимание на формулировки описания дисциплин и результатов обучения.

ПОСТАНОВИЛИ:

1. Предоставить новые образовательные программы по бакалавриату и магистратуре для рассмотрения и утверждения на Совете института «Логистика и управление».

2. Утвердить предложенные дисциплины работодателями внести Учебный план бакалавриата и магистратуры.

3. Учесть и внести в силлабусы дисциплин проводимые в практических и лабораторных занятиях программный продукт AUTOCAD.

Председатель КОК УМБ **Мусаева Г.С.**

Секретарь **Урсарова А.К.**

14. APPROVAL SHEET

No.	FULL NAME.	Place of work / study	Job title	Date of approval	Signature
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5	Naimanova G.T	ALT University	Head of dept	26. 02. 24	

15. SHEET OF REGISTRATION OF CHANGES

Номер издания	Дата введения	Изменения	Подпись
1	2	3	4