

Non-commercial joint-stock company  
«Kazakh National Agrarian Research University»



Director LLP «Tehnobel»  
S. Ramazanov  
» 23 2024



Chairman of the Board – Rector  
A. Kurishbaev  
» 2024

«AGREED»

Director LLP «SAG-Logistik»  
S. Sabanchieva  
« 09 2024



**EDUCATIONAL PROGRAM**

«6B11302 - Logistics (by industry)»

Awarded degree: bachelor services in the educational program  
«6B11302 - Logistics (by industry)»

ALMATY 2024

Approved at the meeting of the Department «Machine use named after I.V. Sakharov»

Protocol № 6, «15» 01 2024 y.

Head of the department [Signature] M. Zhetpeysov

Considered at meetings Academic Committee of the Faculty of «Engineering and technical»

Protocol № 6 «16» 01 2024 y.

Chairman of the AC of the faculty [Signature] U. Ibishev

Reviewed by the Educational Methodological Council of the University and recommended to the Academic Council

Protocol № 4 «01» 02 2024y.

Chairman of the EMS of the University [Signature] A. Abdyrov

The educational program was approved at the meeting of the Academic Council of KazNARU

Protocol № 9, «01» 03 2024 y.

#### Developers:

Dean of the Faculty  
Head of department  
Senior Lecturer

4 th year student, LG-20-22 K  
group  
Graduate of 2023

#### Employer:

Director LLP «Tehnobel»

Director LLP «SAG-Logistik»

#### Agreed:

Head of the Educational Program  
Design Office

[Signature]

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L. Aldibaeva  
M. Zhetpeysov  
A. Alchimbayeva

Zh. Serikkalieвна

S.Mukhan

S.Ramazanov

S. Sabanchieva

Zh.Kussainova

### **Application area**

It is intended for realization of preparation of bachelors under the educational program «6B11302 – Logistics (by industry)» in NCJSC "Kazakh National Agrarian Research University".

### **Regulations**

«On Education» The Law of the Republic of Kazakhstan dated 27 July, 2007 No. 319-III;  
Order of the Minister of Science and Higher Education of the Republic of Kazakhstan dated July 20, 2022 №2;

Classifier of training programs for personnel with higher and post-graduate education. Order of the Minister of Education and Science of the Republic of Kazakhstan of October 13, 2018 No. 569;

Standard Rules for the activities of educational organizations implementing educational programs of higher and (or) postgraduate education. Order of the Minister of Education and Science of the Republic of Kazakhstan of October 30, 2018 No. 595;

Rules of the organization of the educational process on credit technology of training. Order of the Minister of Education and Science of the Republic of Kazakhstan dated 12.10.2018 No. 563;

Algorithm of inclusion and exclusion of educational programs in the Register of educational programs of higher and postgraduate education. Order of the Minister of Education and Science of the Republic of Kazakhstan No. 665 dated December 4, 2018;

Order No. 106 of the Minister of Science and Higher Education of the Republic of Kazakhstan dated October 12, 2022. Rules for keeping the register of educational programs, implemented by the organizations of higher and (or) postgraduate education, as well as the grounds for inclusion in the register of educational programs and exclusion from it

Professional standard. Appendix No. 72 to the order of the Deputy Chairman of the Board of the National chamber of entrepreneurs of the Republic of Kazakhstan "Atameken" dated 11.12.2018 No. 339

- Professional standard "logistics of wholesale business" no. 230 dated 18.11.2019, Appendix no. 1 to the order of the Deputy Chairman of the Board of the National chamber of entrepreneurs of the Republic of Kazakhstan "Atameken" no. 26 dated 07.11.2019, no. 230 dated 18.11.2019

- Professional standard "Organization of professional training of personnel involved in road cargo transportation" Appendix No. 42 to the order of the Deputy Chairman of the Board of the National chamber of entrepreneurs of the Republic of Kazakhstan "Atameken" No. 28 dated December 18, 2019. No. 256 of 20.12.2019

- Professional standard "Container transportation" Appendix No. 75 to the order of the Deputy Chairman of the Board of the National chamber of entrepreneurs of the Republic of Kazakhstan "Atameken" No. 28 dated December 18, 2019. No. 256 of 20.12.2019

- Professional standard "passenger transport logistics" Appendix No. 76 to the order of the Deputy Chairman of the Board of the National chamber of entrepreneurs of the Republic of Kazakhstan "Atameken" No. 28 dated December 18, 2019. No. 256 of 20.12.2019

- Professional standard: "Logistics activities for cargo transportation in the supply chain" No. 230 dated 18.11.2019, Appendix No. 77 to the order of the Deputy Chairman of the Board of the National chamber of entrepreneurs of the Republic of Kazakhstan "Atameken" No. 28 dated December 18, 2019. No. 256 of 20.12.2019

- Professional standard "freight forwarding services on road transport" Appendix 84 to the order of the Deputy Chairman of the Board of the National chamber of entrepreneurs of the Republic of Kazakhstan "Atameken" No. 28 dated December 18, 2019. No. 256 of 20.12.2019

## 1. Passport of the educational program

Code and classification of the education field	6B11 Services
Code and classification of training areas	6B113 Transport service
Code and name of educational program	«6B11302 - Logistics (by industry)»
Type of educational program	Active
The purpose of the educational program	It is aimed at training qualified specialists for the logistics sector in the context of rapidly changing information technologies and a competitive environment, who have theoretical, practical and management skills in the field of transport services.
Level according to ISCED	6
Level according to NQF	6
Level according to PQF-professional qualification framework	6
The number of appendix to the licenses for the training direction	KZ89LAA00031870 5.08.2021 year №004
Accreditation of EP The name of the accreditation body The period of accreditation validity	Certificate KE № 2022/0536 KAZSEE 27.05. 2022- 26.05.2027
Degree awarded	Bachelor in Services in the educational program « 6B11302-Logistics (by industry)»
Learning outcome	Table 2
List of qualifications and positions	<ul style="list-style-type: none"> <li>- Specialist in transport logistics;</li> <li>-Specialist in the development of passenger transport infrastructure;</li> <li>- Specialist in multimodal transport;</li> <li>- Manager of the transport and logistics center;</li> <li>-Engineer for the organization of cargo transportation in the supply chain</li> <li>- Logistician;</li> <li>- Logistics Manager;</li> <li>- Head of Logistics Department;</li> <li>- Head of the freight forwarding agency;</li> <li>- Head of Passenger Transportation Service;</li> <li>- Head of the Training Center for personnel involved in road Freight transportation;</li> <li>- Head of a trucking company.</li> </ul>
Field of professional activity	<p>Areas of professional activity of the graduate:</p> <ul style="list-style-type: none"> <li>- planning;</li> <li>-supply;</li> <li>- organization;</li> <li>- management and control of the logistics systems of the industry, taking into account the requirements for cost, quality, timing, ecology, safety and life</li> </ul>
Scope and object of professional activity	Enterprises, organizations, joint-stock companies, logistics centers and corporations of various forms of ownership, ensuring the functioning of logistics systems and technologies. Departments of logistics of the ministries and

	departments of the Republic of Kazakhstan, departments and services of logistics of production, procurement, supply and marketing, transport and trade organizations, research and design enterprises engaged in the development of logistics systems and technologies, including higher and secondary special educational institutions.
Functions of professional activity	The main functions of professional activity of graduates are-work with clients and suppliers, preparation of documents, their systematization and formation of registers. The logistician is also responsible for solving organizational issues related to the formation and placement of an order, coordinating the work of the warehouse and transport service, forecasting purchases with the sales Department and laying cargo routes, inventory management. In addition, the logistician must know foreign languages, be able to negotiate with contractors and drivers, and be able to correctly use information technology in their work. A logistics professional should have a comprehensive view of all business processes and supply chains and find solutions for their rational optimization.
Types of professional activity	<p><b>1. Estimated:</b></p> <ul style="list-style-type: none"> <li>- reduce all possible costs to the delivery point;</li> <li>- determine the inventory requirements for production;</li> <li>- determine the timing and volume of purchases of material assets;</li> <li>- calculate the material resource requirements for the production process;</li> <li>- calculate the transport costs of the logistics system.</li> </ul> <p><b>2. Constructive:</b></p> <ul style="list-style-type: none"> <li>- manage the process and control freight forwarders, drivers, and movers;</li> <li>- build routes for delivery, loading and unloading of goods, and passenger transportation;</li> <li>- track the delivery of goods and transportation of people via GLONASS</li> <li>- calculate the turnover indicators of inventory groups, compare them with the indicators of previous periods (standards);</li> <li>- organize the work of the warehouse and its elements; <ul style="list-style-type: none"> <li>- determine the need for warehouse space, calculate the warehouse area, calculate and evaluate warehouse expenses;</li> </ul> </li> <li>- choose lifting and transport equipment,</li> </ul>

	<p>organize cargo handling in the warehouse (loading, transportation, acceptance, placement, stowage, storage);</p> <p><b>3. Information technology:</b></p> <ul style="list-style-type: none"> <li>- sociability;</li> <li>- communicate with suppliers, customers and employees</li> <li>- good long-term and operational memory, developed attention to details, numbers, symbols, signs, etc.;</li> <li>- mathematical skills;</li> <li>- developed spatial thinking and imagination;</li> <li>- the ability to focus on one subject for a long time, engage in a certain type of activity, as well as the ability to quickly move from one type of activity to another;</li> <li>- ability to engage in a monotonous type of activity for a long time; - aptitude for working with documents and numbers;</li> <li>- high stress tolerance; - mathematical skills; technical training (skills to work on a personal computer).</li> </ul>
Be competent	<p>The main levels of compliance in logistics include:</p> <ul style="list-style-type: none"> <li>- operations – the main types of work performed within each function and designed to meet the needs of logistics;</li> <li>- functions-traditional areas of specialization in logistics that are important for ultimate success;</li> <li>- the functional cycle (a cycle of order execution) – operational structure of logistics;</li> <li>- areas of activity that are vital for the successful implementation of universal processes.</li> </ul>

## 2. Learning results of Educational Programs

Codes	Learning results
LO1	Be able to apply the basics of natural science disciplines in professional activity using research methods that contribute to the formation of a highly educated person with a broad outlook, knowledge of languages and the basics of entrepreneurship, the structure and functions of legal, anti-corruption, environmental and economic culture for making decisions in the professional field and performing professional functions.
LO2	Determine the actions of the laws of mathematics and economics, labor protection standards, the environment, contradictions and socio-economic consequences of globalization processes.
LO3	Describe the essence, goals, objectives, principles, object and subject of logistics, methods of strategic analysis, key areas of logistics organization, current trends in the development of transport and foreign economic activity.
LO4	Demonstrate knowledge of the basics of marketing, organization and production planning, modern business technologies; trends in the development of the national and international logistics services market, methods of strategic analysis of the business environment and justification of strategic alternatives.
LO5	Apply the latest information and communication technologies in professional activities, including software and hardware tools and methods of production, processing, transmission and consumption of information in systems that ensure the movement of goods, road safety to solve various professional tasks in the logistics sector.
LO6	To supervise and control the collection and comparison of documents for compliance with the rules and procedure for registration of transport and accompanying, freight forwarding, insurance and claim documents, contracts, agreements, contracts to improve the efficiency of logistics services.
LO7	Have skills in an information database on the movement of material flow and related information and financial flows to analyze the functioning of the supply chain based on the use of a database management system and programming technology.
LO8	Know the technical and economic analysis of the activities of transport and logistics facilities and processes, agricultural enterprises, customs and insurance services, evaluate the results of the analysis and reasonably make optimal decisions.
LO9	Apply theoretical and practical knowledge of advanced information systems and technologies in professional activities to solve applied problems in the field of cargo transportation by various modes of transport, organization of warehousing activities, development of intermodal transportation and inventory management of enterprises, interaction with transport and forwarding organizations, agricultural enterprises, customs and insurance services.
LO10	Have the ability to organize and manage the main warehouse, transport processes and operations, optimally manage stocks of finished products in the supply chain; provide the operations department with timely unloading, loading of cargo; coordinate and manage warehouse personnel.
LO11	Apply knowledge in mathematics, probability theory and mathematical statistics, mathematical modeling and methods, innovative technologies, import and export of goods, traffic rules and technical operation, cargo transportation management, routing techniques to solve optimization problems in logistics.
LO12	Apply theoretical and practical knowledge to solve educational, practical and professional tasks to reduce the downtime of transport under cargo operations, increase throughput and rational use of warehouses, platforms, platforms and access roads of vehicles, rational use of loading and unloading machines, mechanisms and vehicles.
LO13	Develop and implement projects aimed at reducing the cost of operations, improving labor productivity and operational efficiency, and the quality of logistics services.

## 2. The content of the educational program

	CC/UC/OC	DisciplineCode	Name of the discipline, forming competencies	academic credits	Volume in hours						Distribution of credits by courses and semesters								The Department	Form of control	
					academic hours	Classroom				Extracurricular		1 course		2 course		3 course		4 course			
						Lectures	Practical class	Laboratory class	Other (practice)	IWST	IWS	1	2	3	4	5	6	7			8
	GES/ЖБП/ООД	General education subject cycle/ Жалпы білім беретін пәндер циклі/ Цикл общеобразовательных дисциплин		56	1680	84	636			240	720	17	20	12	7						
		Module. Humanities and language/Гуманитарлық және тілдік модулі/ Модуль. Гуманитарный и языковой		30	900	30	270			150	450	15	10	5							
1	CC/MK/OK	HK/ KT/ IK1101	History of Kazakhstan/Қазақстан тарихы/ История Казахстана	5	150	15	35	-	-	25	75	5								29	State exam
2	CC/MK/OK	Phil / Fil / Fil2102	Philosophy/Философия/ Философия	5	150	15	35	-	-	25	75			5						29	exam
3	CC/MK/OK	FL/ShT/ IYa /1103	Foreign Language/Шетел тілі/ Иностранный язык/	10	300	-	100	-	-	50	150	5	5							14	exam
4	CC/MK/OK	K(R)L/K(O)T/K(R)Ya/ 1104	Kazakh (Russian) language/Қазақ (Орыс) тілі/Казахский (Русский) язык/	10	300	-	100	-	-	50	150	5	5							15	exam
		Module. Professional and communicative/Кәсіби және коммуникативті модулі/ Модуль. Профессионально- коммуникативный		10	300	30	70			50	150			5	5						
5	CC/MK/OK	IKT /ICT /AKT/ 2105	Information and Communication Technologies/ Ақпараттық коммуникациялық технологиялар/ Информационно-коммуникационные технологии	5	150	15	35	-		25	75			5						9	exam
6	OC /TK/ KB	LACC/ SZhKM/ PAK/ 1108	Law and anti corruption culture/ Құқық және сыбайлас жемқорлыққа қарсы мәдениет/ Право и антикоррупционная культура	5	150	15	35	-	-	25	75		5								exam



		Ekon/Ekon/ Ekon 1108	Economy /Экономика/Экономика/																	
		Ekol/Ekol/Ekol 1108	Ecology /Экология/Экология/																	
		LS/ TAK/BZh/ 1108	Life safety/Тіршілікәрекетінің қауіпсіздігі/Безопасность жизнедеятельности/																	
		Ent /Kas/Pre/ 1108	Entrepreneurship/Кәсіпкерлік/Предп ринимательство/																	
		GZN/ ONI/ FSR 1108	Fundamentals of Scientific Research/ Ғылымизерттеулердің негіздері/Осн овы научных исследований																	
		<b>Module. Socio-political knowledge and a healthy lifestyle/Әлеуметтік-саясаттану білім және салауатты өмір салты модулі/ Модуль. Социально- политических знаний и здоровый образ жизни</b>		<b>16</b>	<b>480</b>	<b>24</b>	<b>296</b>			<b>40</b>	<b>120</b>	<b>2</b>	<b>10</b>	<b>2</b>	<b>2</b>					
7	CC/MK/ OK/	MSPK(SPSCSP) ASBM(ASMP)/M SPZ(SPKP)/ 1106	Module of socio-political knowledge (sociology, political science, cultural studies, psychology)/Әлеуметтік- саясаттану білім модулі (әлеуметтану, саясаттану, мәдениеттану, психология)/Модуль социально- политических знаний (социология, политология, культурология, психология)	8	240	24	56	-	-	40	120		8						29	exam
8	CC/MK/ OK	PhT/DSh/ PT/ 1107/ 2107	Physical Training/ Дене шынықтыру/ Физическая культура/	8	240	-	240	-	-	-	-	2	2	2	2				30	exam
	<b>БП</b>	<b>Core subjects cycle/ Базалық пәндер циклы/ Цикл базовых и профилирующих дисциплин/</b>		<b>116</b>	<b>3360</b>	<b>303</b>	<b>707</b>	<b>-</b>	<b>150</b>	<b>505</b>	<b>159 0</b>	<b>13</b>	<b>10</b>	<b>18</b>	<b>23</b>	<b>25</b>	<b>18</b>			
		<b>Module 1 Professional communications/Модуль 1 Кәсіби коммуникациялар/ Модуль 1 Профессиональные коммуникации/</b>		<b>12</b>	<b>360</b>	<b>30</b>	<b>70</b>		<b>60</b>	<b>50</b>	<b>150</b>	<b>10</b>	<b>2</b>							
9	CS/UC БП/ЖК БД/БК	HM/ZhM/VM/ 1201	Higher mathematics/ Жоғарғы математика/Высшая математика/	5	150	15	35	-	-	25	75	5							9	exam
10	CS/UCB П/ЖКБ Д/БК	LB/LN/OL/ 1202	Logistics basics/Логистика негіздері/ Основы логистики/	5	150	15	35	-	-	25	75	5							5	exam
11	CS/UC БП/ЖК БД/БК	Trac/Zhuk /Gruz/ 1203/	Tracking /Жүктану/Трузоведение/	4	120	12	28	-	-	20	60	4							5	exam

12	CS/UC БП/ЖК БД/БК	GCT/KZhK/OKT/ 1204	General course of transport/ Көліктің жалпы курсы/Общий курс транспорта	4	120	12	28	-		20	60		4						5	exam
13	CS/UC БП/ЖК БД/БК	TR/ZhKE/PDD / 2206	Traffic laws/Жол қозғалысы ережелері/Правила дорожного движения/	4	120	12	28	-	-	20	60			4					5	exam
14	CS/UC БП/ЖК БД/БК	EP/ OP /UP/ 1205	Educational practice /Оқу практикасы/Учебная практика/	2	60	-	-	-	20	-	40		2						5	diff. credit
		<b>Module 2 Socio-economic/Модуль 2 Әлеуметтік-экономикалық/экономический</b>	<b>Модуль 2 Социально-</b>	<b>17</b>	<b>630</b>	<b>51</b>	<b>159</b>			<b>105</b>	<b>315</b>	<b>4</b>	<b>-</b>	<b>5</b>		<b>6</b>	<b>6</b>			
15	CS/OC БП/ТК БД/КВ	BE/ BE /BE2209	Business Economics/Бизнес экономика/ Бизнес экономика/	5	150	15	35	-	-	25	75			5					2	exam
		BP/BZh /BP 2209	Business planning /Бизнес жоспарлау/Бизнес планирование/																	
16	CS/OC БП/ТК БД/КВ	1CA/ 1CB/1CB1/ 3221	1C Accounting/ 1C Бухгалтерия/ 1C Бухгалтерия/	6	180	18	42	-	-	30	90						6		2	exam
		IFA /IKT /IFA/ 3221	Innovative financial analysis/ Инновациялық қаржылық талдау/Инновационный финансовый анализ																	
17	CS/OC БП/ТК БД/КВ	ML/ ML/ML 3218	Marketing logistics/ Маркетинговая логистика/Marketing logistics	6	180	18	42	-	-	30	90					6			5	exam
		SLM/ LSB / SUL 3218	Strategic logistics management / Логистиканы стратегиялық басқару/ Стратегическое управление логистикой																	
		<b>Module 3. Logistic transportation management</b>	<b>Модуль 3 Логистикалық тасымалдауды басқару/Модуль 3 Управление логистическими перевозками /</b>	<b>27</b>	<b>810</b>	<b>81</b>	<b>189</b>	<b>-</b>		<b>135</b>	<b>405</b>		<b>4</b>	<b>-</b>	<b>5</b>	<b>12</b>	<b>6</b>			
18	CS/UC БП/ЖК БД/БК	LGM/TKL/ LT/ 2210	Logistics of goods movement /Тауар қозғалысының логистикасы/Логистика товаров движения/	5	150	15	35	-	-	25	75				5				5	exam
19	CS/UC БП/ЖК БД/БК	CL/KI / KL/ 2212	Commercial logistics/Коммерциялық логистика/Коммерческая логистика/	5	150	15	35	-	-	25	75				5				5	exam
20	CS/UC БП/ЖК БД/БК	OCCW / ZhKZhU / OGKR / 3216	Organization of cargo and commercial work/ Жүк және коммерциялық жұмыстарды	6	180	18	42	-	-	30	90					6			5	exam

			ұйымдастыру/Организациягрузово йкоммерческойработы/																	
21	MS/UC КП/ЖК ПД/БК	IL/LS/SL/ 4302	Insurance in logistics /Логистикалық сақтандыру/Страхование в логистик	6	180	18	42	-	-	30	90						6		5	exam
22	БП/ТК БД/КВ СД/ОС	ICT/HZht /MGP / 3220	International cargotransportation/ Халықаралық жүк тасымалдары/Международныегруз овыеперевозки/	6	180	18	42	-	-	30	90				6				5	exam
		TOCT/ZhTTU/T OGP/ 3220	Technology and organization of cargo transportation/Жүк тасымалдарының технологиясы және оны ұйымдастыру/Технология и организация грузовых перевозок/																	
23	СД/ОС БП/ТК БД/КВ	CL/KL/TL / 3222	Customslogistics/ Кедендік логистика/Таможенная логистика/	6	180	18	42	-	-	30	90				6				5	exam
		IM/IB / UI/ 3222	Infrastructuremanagement/ Инфраструктураны басқару/Управление инфраструктурой/																	
		<b>Module 4 Digitaltechnologiesinlogistics</b> <b>Модуль 4 Логистикадағы сандық технологиялар/</b> <b>Модуль 4 Цифровые технологии в логистике/</b>		<b>24</b>	<b>720</b>	<b>63</b>	<b>147</b>	<b>-</b>	<b>30</b>	<b>105</b>	<b>375</b>				<b>13</b>	<b>-</b>	<b>-</b>		6	
24	СД/УС БП/ЖК БД/БК	ITSL/LITSh /ITRL/ 2211	IT solutions in logistics/ Логистикадағы IT шешімдер/ITрешениявлогистике/	5	150	15	35	-	-	25	75				5				5	exam
25	СД/ОС БП/ТК/ БД/КВ/	ML/LM/ ML/ 2214	Modelinginlogistics/Логистикадағы модельдеу/ Моделирование в логистике/	5	150	15	35	-	-	25	75			5					5	exam
		MML/LMM / MML 2214	Mathematicalmodelinginlogistics/Лог истикадағы математикалық модельдеу/Математическое моделирование в логистике																	
26	СД/УС БП/ЖК БД/БК	IL/AL/IL/ 2208	Informationlogistics/Ақпараттық логистика/Информационная логистика/	5	150	15	35	-	-	25	75			5					5	exam
27	СД/УС БП/ЖК БД/БК	MP/OP /PP/ 2215	Manufacturingpractice/Өндірістік практика/Производственная практика/	4	120	-	-	-	40	-	80			4					5	diff. credit
		<b>Module 5 Organizationoftransportprocesses</b> <b>Модуль 5 Көлік процестерін ұйымдастыру/</b>		<b>35</b>	<b>960</b>	<b>78</b>	<b>182</b>		<b>60</b>	<b>130</b>	<b>510</b>	<b>-</b>	<b>5</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>12</b>			

[illegible]

		4308	logistics/Сатып алу және өндірістік логистикасы/ Закупочная и производственная логистика/																	
35	MS/OC КП/ТК ПД/КВ	DL /TL /LR /4305	Distribution logistics/Тарату логистикасы /Логистика распределения	5	150	15	35	-	-	25	75						5		5	exam
		SL /OL / SL / 4305	Sales logistics/ Өткізу логистикасы/ Сбытовая логистика/																	
36	MS/OC КП/ТК ПД/КВ	LSSAP/AShOZhS L/ LPHSHP 4304	Logistics of supply and storage of agricultural products /АШӨ жеткізу және сақтау логистикасы/Логистика поставок и хранения СХП/	5	150	15	35	-	-	25	75						5		5	exam
		SHPL/ AShOL/LSHP 4304	SHPL logistics/АШӨ логистикасы/ Логистика СХП/																	
37	CS/OC БП/ТК БД/КВ	PL AIC/ AOKOL/ PLAPK / 3219	Production logistics in the agroindustrial complex AIC /АӨК өндірістік логистикасы/Производственная логистика в АПК/	6	180	18	42	-	-	30	90				6				5	exam
		IPCG/ HTTOS/ OPTNP 3219	Industries for the production of consumer goods/ Халық тұтынатын тауарларды өндіру салалары/Отрасли по производству товаров народного потребления/																	
		<b>Module 7. Transport and technological process in the agricultural sector/ Модуль 7.Аграрлық сектордағы көлік-технологиялық процесс /Модуль 7.Транспортно-технологический процесс в аграрном секторе</b>		<b>46</b>	<b>840</b>	<b>51</b>	<b>119</b>		<b>110</b>	<b>85</b>	<b>475</b>					<b>6</b>	<b>10</b>	<b>12</b>		
38	MS/OC КП/ТК ПД/КВ	FFS/KEKK/TEO 3302	Freight forwarding services/ Көліктік экспедициялық қызмет көрсету/ Транспортно-экспедиционное обслуживание/	6	180	18	42	-	-	30	90					6				exam
		TLI/KLI / TLI/ 3302	Transport and logistics infrastructure/Көліктік-логистикалық инфрақұрылым/Транспортно-логистическая инфраструктура/																	
39	MS/UC КП/ЖК ПД/ВК	LUT/ TTZhT/TPRR/ 4301	Loading and unloading technology/Тиеу және түсіру жұмыстарының технологиясы/Технология	5	150	15	35	-	-	25	75						5		5	exam

			погрузочных и разгрузочных работ																		
40	MS/OC КП/ТК ПД/КВ	ATL/AShKL/LST / 4306	Agricultural transport logistics/Ауыл шаруашылығы көліктерінің логистикасы/Логистикасельскохозяйственного транспорта	6	180	18	42	-	-	30	90								6	5	exam
		UTS/BKZh/ ETS 4306	Unified transport system/ Біртұтас көлік жүйесі/Единаятранспортнаясистема																		
41	MS/OC КП/ТК ПД/КВ	DLS / LZhZh / PLS 4307	Design of logistics systems/Логистикалық жүйелерді жобалау/ Проектирование логистических систем/	6	180	18	42	-	-	30	90								6	5	exam
		LTCS/ LKZhZh / LTGS 4307	Logistics transport and cargo systems/Логистикалық көлік -жүк жүйелері/ Логистическийтранспортно – грузовыесистемы/																		
42	MS/UC КП/ЖК ПД/ВК	PP/OP / PP/4309	Productionpractice /Өндірістік практика/Производственная практика	4	120	-	-	-	30	-	90	-	-	-	-	-	-	4			diff. credit
43	MS/UC КП/ЖК ПД/ВК	PP/ KP/ PP/ 4310	Professional practice/Кәсіби практика/ Профессиональная практика/	4	120				30		90							4	5	diff. credit	
			Қорытынды модуль	8	240				80		160							8			
			Final certification/ Қорытынды аттестаттау/Итоговая аттестация/	8	240				80		160							8			
			Барлық кредиттер	243	7290							31	31	30	31	30	30	30	30		

<sup>1</sup>Note:

Departmentnumber	The name of the department
1	Agronomy, breedingandbiotechnology
2	Fruit and vegetable growing, plant protection and quarantine
3	Soil science, agrochemistry and ecology
4	Obstetrics, surgery and reproduction biotechnology
5	Biologicalsafety
6	ClinicalVeterinarymedicine
7	Microbiology, VirologyandImmunology
8	Veterinary sanitary examination and hygiene
9	"Physiology, morphology and biochemistry" named after N.U.Bazanova
10	Forest resources, hunting and fisheries
11	Landresourcesandcadastre
12	Water resources and land reclamation
13	Accounting, auditandfinance
14	«Management and organization of agribusiness» named after Kh.D. Churin
15	Law
16	Zooengineering
17	Technologyandfoodsafety
18	Agricultural machinery and mechanical engineering
19	"Machine use" named after I.V.Sakharov
20	Energysavingandautomation
21	IT technologiesandautomation
22	Socialdisciplines
23	KazakhstanRussianlanguages
24	Foreignlanguages
25	Physicaleducationandsports
26	MilitaryDepartment

#### 4. Map of competence

Codes	Module	Educational competence	Learning outcomes
MC1	Module. Humanities and language	aimed at the formation of fundamental source and historiographic materials, as well as for the achievement of modern historical science of Kazakhstan; to determine the role of the history of Kazakhstan in the system of humanitarian knowledge; on revealing the specifics of the object and subject of history of Kazakhstan for the analysis of topical problems of the modern stage of development; on creation of scientifically grounded concept of history of Kazakhstan based on integral and objective coverage of the main stages of ethnogenesis of the Kazakh people, evolution of forms of statehood and civilization in the Great Steppe; on systematization of knowledge of the main events of the modern history of Kazakhstan.	<ul style="list-style-type: none"> <li>- demonstrate knowledge and understanding of the main stages of development of the history of Kazakhstan</li> <li>- correlate the phenomena and events of the historical past with the general paradigm of world-historical development of human society through critical analysis; - possess the skills of analytical and axiological analysis in the study of historical processes and phenomena of modern Kazakhstan</li> <li>- be able to comprehend objectively and comprehensively the immanent features of the modern Kazakhstan model of development</li> <li>- to systematize and give a critical assessment of historical phenomena and processes in the history of Kazakhstan.</li> </ul>
MC2		form a system of general competencies that ensure the socio-cultural development of the personality of the future specialist based on the formation of his ideological, civic and moral positions;	<ul style="list-style-type: none"> <li>- to evaluate the surrounding reality on the basis of ideological positions, formed by the knowledge of the fundamentals of philosophy, which provide scientific understanding and study of the natural and social world by methods of scientific and philosophical knowledge;</li> <li>- to interpret the content and specific features of the mythological, religious and scientific worldview;</li> <li>- to give assessment to everything happening in the social and industrial spheres;</li> </ul>
MC3		develop the ability to interpersonal social and professional communication in the state, Russian and foreign languages;	<ul style="list-style-type: none"> <li>- implement the use of language and speech tools based on a system of grammatical knowledge; analyze information in accordance with the situation of communication;</li> <li>- to carry out the use of linguistic and speech means based on the system of grammatical knowledge; analyze information in accordance with the communication situation;</li> </ul>
MC4	Module. Professional and communicative	The development of information literacy through the mastery and the use of modern information and communication technologies in all areas of life and work;	<ul style="list-style-type: none"> <li>- evaluate the activities and actions of communication participants.</li> <li>- to use in personal activities various types of information and communication technologies: Internet resources, cloud and mobile services for searching, storing, processing, protecting and</li> </ul>



			distributing information;
<b>MC5</b>		Have an intolerant attitude toward corrupt behavior, respectful of legislation and law.	<p>-analyze events and actions from the point of view of the area of legal regulation and be able to refer to the necessary regulatory acts;</p> <p>- to be guided in the current legislation;</p> <p>using the law, to protect their rights and interests,</p> <p>- to carry out professional activities on the basis of a developed legal awareness, legal thinking and legal culture;</p> <p>- to acquire a sufficient level of legal awareness;</p> <p>- perform professional duties and principles of ethics economist;</p> <p>- be able to assess the facts and phenomena of professional activity from an ethical point of view;</p> <p>- apply moral rules and norms of behavior in specific life situations</p>
<b>MC 6</b>		Be competent to analyze and obtain information in accordance with the basic knowledge of the economy; use the basics of economic knowledge in various fields;able to apply this knowledge in solving situational and practical problems.	<p>- to know the fundamental problems of the functioning of the economy, the mechanism of action and manifestation of economic laws, as well as the main features of the leading schools and areas of economic science;</p> <p>- to be aware of economic terms and categories, use them in their educational activities;</p> <p>- to understand and know the main events of the world and domestic economic history, the course of ongoing reforms in the light of the strategy "Kazakhstan - 2050", development trends in the field of modern business;</p> <p>- to distinguish and compare the behavior of market agents in different types of market structures;</p> <p>- to explain the interaction of economic agents in macroeconomic markets;</p> <p>- to compare the impact of macroeconomic policies in different countries;</p> <p>- to argue their own views on modern macroeconomic phenomena;</p> <p>- to use the knowledge gained in practice to assess the results of economic reforms in Kazakhstan</p>

MC 7	To be competent in the application of methods for the implementation of low-waste production and the assessment of the environmental efficiency of economic activity.	<ul style="list-style-type: none"> <li>- know the contents of the basic terms in the field of ecology, environmental management; modern global and regional environmental problems and their solutions;</li> <li>- be able to apply environmental knowledge to solve and predict possible environmental problems;</li> <li>- apply methods for the implementation of low-waste production and assess the environmental performance of economic activity.</li> <li>- establish causal relationships between phenomena occurring in nature and society,</li> <li>- apply environmental knowledge to solve and predict possible environmental problems.</li> </ul>
MC 8	Contribute to the ability to use modern optimization methods to solve organizational and managerial tasks in the field of logistics process management; skills of analysis and management of transport and logistics systems; the ability to apply the acquired knowledge to solve issues of safety and reliability of operation of machinery and equipment and knowledge of issues of social protection of employees.	<ul style="list-style-type: none"> <li>-to know the essence of logistics approaches in the development of economically feasible methods of cargo and passenger delivery in transport and logistics systems;</li> <li>- to know modern optimization methods for solving organizational and managerial tasks in the field of transport and logistics processes management;</li> <li>-be able to use modern optimization methods to solve organizational and managerial tasks in the field of logistics process management;</li> <li>-to know the properties of various types of cargo and their impact on the organization of the transport process; cargo classification; cargo transport characteristics; characteristics of containers and packaging materials; cargo labeling; rules for the transportation of various goods; logistics operations related to the preparation, loading, unloading and delivery of goods to the consignee, requirements for vehicles and loading and unloading mechanisms when performing transportation of the following types;</li> <li>- to know the main legislative acts on industrial safety, labor protection, environmental protection and civil protection;</li> <li>- apply the knowledge gained to address the safety and reliability of the operation of machinery and equipment;</li> <li>- ability to evaluate machinery and process equipment in terms of exposure to abnormal situations.</li> </ul>

<b>MC9</b>	<b>Module. Socio-political knowledge and a healthy lifestyle</b>	form the skills of self-development and education throughout life;	<ul style="list-style-type: none"> <li>-to assess situations in various spheres of interpersonal, social and professional communication, taking into account the basic knowledge of sociology, political science, cultural studies and psychology;</li> <li>- to synthesize knowledge of these sciences as a modern product of integrative processes;</li> <li>- to use scientific methods and approaches of research of a specific science, as well as the entire socio-political cluster;</li> <li>- develop their own moral and civic position;</li> <li>- operate with the social, business, cultural, legal and ethical norms of Kazakhstan society;</li> <li>- demonstrate personal and professional competitiveness;</li> <li>- to put into practice knowledge in the field of social sciences and humanities, having international recognition;</li> <li>- to make a choice of methodology and analysis;</li> <li>- summarize the results of the study;</li> <li>- to synthesize new knowledge and present it in the form of humanitarian socially significant products;</li> </ul>
<b>MC10</b>		form a personality capable of mobility in the modern world, critical thinking and physical self-improvement.	<ul style="list-style-type: none"> <li>- to build a personal educational trajectory throughout life for self-development and career growth, focus on a healthy lifestyle to ensure full social and professional activities through methods and means of physical culture.</li> </ul>
<b>Core and major subjects competencies</b>			<b>Learning Outcomes</b>
<b>MC11</b>	<b>Socio-economic</b>	The ability to apply modern methods of end-to-end management of material, financial and information flows is based on forecasting market demand for products, planning and regulation, accounting, analysis and control of the company's divisions at all stages of material support of production, manufacturing and sales of products.	<ol style="list-style-type: none"> <li>1. Apply the basic laws of the market economy, the principles of the organization of scientific texts;</li> <li>2. Use the knowledge of economic theory in solving situational and practical problems;</li> <li>3. Knowledge to use in the conduct of business documents.</li> </ol>
<b>MC12</b>	<b>Logistics transportation management</b>	The ability to ensure full and timely satisfaction of the needs of the country's economy and population in transportation, improving the efficiency and quality of work. Know the main theoretical, practical and methodological issues related to the properties of goods and their impact on the technology and organization of loading and unloading processes and transportation of various types of goods, the interaction of goods with the environment and among	<ol style="list-style-type: none"> <li>1. Apply the basic tools for calculating the natural loss, the number of cargo units per unit of packaging, the delivery time of goods</li> <li>2. The use of experience in the preparation of transportation and transport documentation; taking into account the impact of the characteristics of the goods on the organization of the transportation</li> </ol>

		themselves, the relationship of the transport state of goods with the technology and organization of the transportation process, optimal storage conditions in warehouses and placement in wagons.	process; 3. Apply basic mathematical and physical laws to solve practical problems.
<b>MC13</b>	<b>Digital technologies in logistics</b>	Digital logistics management is necessary for a breakthrough in competitiveness and transparency in the "client – performer" chain. Digital management of cargo transportation means, first of all, the rejection of paper invoices and other printed documents required for transportation. Its solutions for transport logistics allow you to correctly plan the activities of transport departments of enterprises, increasing the transparency and efficiency of business processes, and help reduce costs by using additional tools.	1. Classify the principles of the theory of terminology and practice of terminological work in the field of information and documentation; 2. Use the main scientific and technical problems and prospects of the industry development; 3. Assess trends in the industry's working conditions and infrastructure development;
<b>MC14</b>	<b>Organization of transport processes</b>	The ability to understand the branch of the national economy that has the purpose of transporting goods and passengers, the actual process of moving cargo or people (passengers) in space, which is often referred to as "transportation", a set of technical means that ensure the movement of material products and people. An important concept of transport logistics is the concept of transport (transportation) process, which is understood as a set of organizational and technologically interrelated actions and operations performed by a transport enterprise and its divisions independently or in coordination with other organizations during the preparation, implementation and completion of cargo transportation.	1. Forms of interaction between different modes of transport; General patterns of development of technical means and operation of different modes of transport; 2. Features of different modes of transport in a single transport system; technical and operational characteristics of modes of transport; 3. The effectiveness of the techniques in the use of agricultural vehicles
<b>MC15</b>	<b>Logistics systems in agriculture</b>	The ability provided by various marketing functions (market analysis, market segmentation, product nomenclature, pricing, etc.). However, the market economy becomes most effective only if the turnover of working capital accelerates. This acceleration is largely provided by solving the problems of commodity movement, which are the main ones for the new branch of knowledge – logistics. Formation and development of regional logistics planning, control and management of transposition, warehousing and other material and non-material operations. material corresponding financial and information flows accompanying production and commercial activities.	1. Research the General principles of transport logistics management; 2. Use the latest achievements in the application of advanced technology and technology; 3. Solve problems of organizational, operational problems, economic and sociological issues.
<b>MC16</b>	<b>Transport and technological process in the agricultural</b>	The technology of the cargo transportation process is understood as a way to implement a specific transportation process by dividing it into a system of	1. Use the types of deliveries and technological schemes of transportation and flows in the logistics systems of the agro

	<b>sector</b>	consecutive interconnected stages and operations that are performed more or less uniquely and are aimed at achieving high transportation efficiency. The main goal of the technology is to eliminate unnecessary operations from the transportation process and make it more purposeful. The essence of cargo transportation technology is revealed through two main concepts-stage and operation. A stage is a set of operations that are used to perform a particular process. An operation is a homogeneous, logically indivisible part of the transportation process, aimed at achieving a specific goal, performed by one or more performers.;	industrial complex; 2. To use the basic concepts of logistics in agribusiness logistic systems in agriculture; 3.Solve analytical and research tasks on transport regulation of foreign economic activity.
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#### Information about disciplines

№	Name of discipline	Short description of the discipline (30-50 words)	Number of credits	Formed competencies (codes)
General education subjects cycle / Core Component				
1	History of Kazakhstan(SE)	The study of the course is aimed at the formation of students the concept of modern history of the Fatherland, based on a holistic and objective coverage of the problems of ethnogenesis of the Kazakh people, the evolution of forms of statehood and civilization in the great steppe and the totality of the most significant historical facts and events. Systematization of historical knowledge about the main events of modern history, forming a scientific worldview and citizenship. Creation of ideological and spiritual basis for consolidation of multi-ethnic and multi-confessional Kazakhstan society	5	MC1
2	Philosophy	The course is aimed at the formation of students ideas about philosophy as a special form of knowledge of the world, its main sections, problems and methods, as well as skills of self-analysis and moral self-regulation, the development of research abilities and the formation of intellectual and creative potential. Special attention is paid to the problems of preservation of national identity, the assimilation of such key worldview concepts as justice, dignity and freedom and the role of philosophy in the modernization of public consciousness and the solution of global problems of our time	5	MC2
3	Foreign Language	Teaching a foreign language sets tasks for the development of foreign language communicative competence in the totality of its components: speech competence – development of communication skills in four main types of speech activity; linguistic competence – the mastery of new linguistic means (phonetic, orthographic, lexical, grammatical); socio-cultural competence –the formation of the ability to represent their country, its culture; educational and cognitive competence –	10	MC3

		familiarization with the available methods and techniques of self-study of languages and cultures.		
4	Kazakh (Russian) language	The discipline is aimed for the development of language the personality of the student who is able to carry out cognitive and communicative activities in the Russian language in the areas of interpersonal, social, professional, intercultural communication in the context of the implementation of state programs of trilingualism and spiritual modernization of national consciousness. Discipline involves the successful mastery of speech activities in according to level training	10	MC3
5	Information and Communication Technologies	Formation of the ability to critically evaluate and analyze processes, methods of searching, storing and processing information, ways of collecting and transmitting information through digital technologies. Mastering the conceptual fundamentals of computer systems, operating systems and networks. Formation of knowledge about the concepts of development of network and web applications, information security tools.	5	MC4
Module. Socio-political knowledge and a healthy lifestyle				
6	Social Studies	Studies society, revealing the internal mechanisms of its structure and development of its structures (structural elements: social communities, institutions, organizations and groups); patterns of social actions and mass behavior of people, as well as the relationship between the individual and society sociology explains social phenomena, collects and summarizes information about them.	2	MC2 MC9
	Political Studies	The science of politics, the laws of the emergence of political phenomena (institutions, relations, processes), the ways and forms of their functioning and development, methods of managing political processes, political consciousness, culture, etc.	2	MC9
	Cultural Studies	Studies on culture, its history, essence, patterns of functioning and development, which can be found in the works of scientists representing various options for understanding the phenomenon of culture. In addition, cultural studies are engaged in studying the system of cultural institutions, through which the upbringing and education of a person are carried out and which produce, store and transmit cultural information.	2	MC2 MC9
	Psychology	Psychology is a science which goal is to study the mechanisms of the functioning of the human psyche. It examines the patterns of people's behavior in various situations, the resulting thoughts, feelings and experiences. Psychology is something that helps us to get to know ourselves more deeply, to understand our problems and their causes, to recognize our weaknesses and strengths. Studying Psychology contributes to the development of moral character and morality in man.	2	MC2 MC9
7	Physical Training	Discipline covers a range of issues related to physical culture, as part of human culture, healthy lifestyle, its main components, socio-biological basis of human adaptation to physical and mental activity, preparation for independent physical	8	MC 9

		culture and sports, age physiology, self-control physical condition, psychophysical basis of physical culture and sports, hygiene.		
Cycle of general education disciplines Elective component				
8	Law and anti-corruption culture	The purpose of the discipline is the education of Kazakhstani patriotism as a necessary condition for the improvement of legal statehood in the Republic of Kazakhstan, the formation of students' world knowledge, the improvement of public, legal culture and private legal knowledge. Improving legal literacy within the framework of anti-corruption legislation and the formation of anti-corruption views of students, standards of behavior, negative attitude to any manifestations of corruption.	5	MC5 LO1 LO8
	Economy	The objectives of the discipline are: the disclosure of the general principles of economic theory, the study of the laws of economic management and rational behavior of economic entities at various levels, the elucidation of the principles and laws of economic development, the disclosure of basic economic concepts and categories.	5	MC6 MC11 LO1 LO2 LO3
	Ecology	Formation of natural-scientific system knowledge about the ecological laws of the existence of individuals, populations and communities of living organisms, which are the theoretical foundation of all environmental measures to ensure human environmental safety, preserve his health, ecological culture, allowing the use of environmental knowledge not only in narrow professional interests, but also to promote the exit of society from the ecological crisis and movement towards sustainable development and apply theoretical knowledge for solving environmental problems.	5	MC7 MC8 LO1 LO2
	Life safety	The discipline "Life Safety" sets out the objectives of the course: organizing and ensuring the protection of the population from the consequences of accidents, catastrophes, natural disasters and the use of modern means of destruction; ensuring the sustainable functioning of business facilities in emergency situations of peace and war; organizing and carrying out rescue and other urgent work in the centers of destruction and areas of catastrophic flooding, measures to eliminate the consequences of modern weapons, natural disasters, major accidents and catastrophes.	5	MC7 MC8 LO1 LO2
	Entrepreneurship	The purpose of the discipline is to develop students' understanding of how to create and develop a commercial or social project, as well as to familiarize students with the tools, practical knowledge and skills necessary in the framework of entrepreneurial activity. As a result of mastering the discipline, students will be able to gain an understanding of the elements of the entrepreneurial process and the process of finding and evaluating opportunities.	5	MC7 MC8 LO1
	Fundamentals of Scientific Research	As a result of studying the theoretical course, student must learn the methodology and methodology of scientific research, be able to identify problem situations using the methods of	5	MC7 MC8 LO1

		analysis, synthesis and abstract thinking. As a result of learning the discipline, the student will acquire the skills of presenting scientific materials and forming the text of a scientific work. The knowledge gained during the course is necessary for the subsequent study of the disciplines of the professional cycle, the passage of professional practices, the preparation of the final qualifying work.		
Cycle of basic disciplines /University component				
9	Higher mathematics	The discipline studies the teaching of basic mathematical concepts and methods necessary for the analysis and modeling of economic problems in the search for rational solutions in difficult conditions; the development of analytical abilities necessary for solving scientific and practical problems; the formation of students' personality, the development of their intelligence and abilities for logical and algorithmic thinking, the development of an understanding of the universality of mathematical methods in the problems of describing phenomena and processes in economics and other fields.	5	MC6 LO2 LO11
10	Logistics basics	The discipline studies concepts and principles of logistics, knowledge of modern methods of organization, basic, stable knowledge of logistics - the field of management of material and related information and financial flows, the organization of integrated interaction of structural divisions of enterprises and their partners to achieve the corporate goal of business with optimal resources.	5	MC8 LO3 LO4
11	Tracking	The discipline studies the theoretical knowledge necessary to ensure the delivery of goods with their complete safety and security of transportation by any transport, transport and logistics characteristics of goods, physico-chemical properties of goods, rules for the preparation of goods and rolling stock for transportation, principles of ensuring the safety of transported goods and the environment from transport pollution.	4	MC8 LO10 LO11
12	General course of transport	The discipline forms students' professional theoretical and practical knowledge in the field of road transport – the field of future activity, but also in the aggregate for all types of transport that interact with road transport, instilling professional interest in the transport system as one of the most important components of the material and technical base of the country's economy. The main objectives of the discipline are the study of the transport system in its current state, familiarization with the basics of the organization of transportation and the features of the main modes of transport included in the transport system of the country, the study of the main performance indicators, characteristics, problems and forms of interaction of various modes of transport.	4	MC8 LO10 LO12
13	Traffic laws	The discipline studies the basics of theoretical knowledge and practical skills on the rules of the road. As a result of mastering the discipline, a student can make the right decisions in typical road situations and thereby ensure both personal and	4	MC8 LO5 LO11



		collective safety when using vehicles.		
14	Logistics of goods movement	The discipline studies a set of measures for the promotion of goods, the process of promoting goods from the manufacturer to the retail trade to the buyer or through the importer (exporter), wholesale buyer and other participants in the circulation of goods, control over the physical movement of materials and finished products from their place of origin to places of use in order to meet the needs of consumers and for their own benefit.	5	MC12 LO7 LO9
15	Commercial logistics	The subject studies theoretical aspects and practical solutions in the field of optimization of material flow management processes in trade. The purpose of studying the discipline is: the formation of a future specialist in the field of trade and public catering orientation to the multidimensional system integration of individual links of commodity distribution chains, as one of the key factors of their high competitiveness in the present conditions.	5	MC12 LO3 LO4
16	Organization of cargo and commercial work	The discipline studies the basics of organization and management of commercial cargo work; students' ability to organize work on cargo and commercial operations and cargo transportation technology; application of information technologies and mathematical methods in cargo and commercial work. As a result of studying the course, students should know the technical means of cargo and commercial work, progressive approaches to the organization of transportation in transport and logistics systems, including container and package, the basics of commercial activities of specialists in the organization and management of transportation.	6	MC12 LO6 LO7 LO8
17	IT solutions in logistics	The discipline is designed for the introduction of information technologies in the field of logistics. Information support of logistics management is one of the most important and urgent problems. The purpose of the discipline is to study the information support of the logistics process. This implies the following tasks: consideration of the role, significance and prospects of using information technology, the problems of implementing information technology in the field of logistics, as well as a brief overview of the main software products that are used in logistics systems.	5	MC13 LO5 LO11
18	Information logistics	The discipline "Information Logistics" studies the main directions of optimizing the logistics costs of students through the introduction of modern information systems and technologies. As a result of studying the discipline, the student should know: current trends in the development of information systems and technologies in logistics, the main directions of automation of business processes in the main functional areas of logistics (distribution, procurement, transportation, production activities, warehousing) through the introduction of modern information systems and technologies, to search, systematize and analyze logistics information to implement prospects for the development of the industry, modern information systems and technologies.	5	MC13 LO5 LO7

19	Interaction of transport	The discipline studies the essence, basic concepts and definitions of a unified transport system. Factors determining the unity of the transport system, the general transport characteristics of the components of the transport system, the meaning and forms of interaction of different modes of transport. the main documents regulating the relationship, rights, duties and responsibilities of transport organizations of shippers and consignees, principles of transport management in a market economy.	5	MC14 LO6 LO9
20	Transport logistics	The discipline studies the organization of delivery, that is, the transportation of any material objects (products, substances) from one point to another, the need to ensure the physical movement of such goods in space along the optimal route with the least cost. The main tasks of transport logistics are: choosing the type of transport, ensuring the technological unity of the transport and warehouse process, optimizing the parameters of the transport process.	6	MC14 LO8 LO9
21	Organization of transportation and traffic management	The discipline provides knowledge about the methods of organizing transport services for the transportation of goods and passengers, ensuring safety in the implementation of transport processes. The objectives of studying this discipline is the formation of professional, general professional and general cultural competencies necessary for the organization of professional activity in accordance with the legislative framework of the Republic of Kazakhstan and international legislation, ideas about state policy in the field of organization of transport services and safety of transport processes.	4	MC14 LO9 LO11 LO12
22	Insurance in logistics	The discipline studies the essence of insurance in logistics, property insurance, procedures and regulations for insurance of logistics risks during transportation, insurance of warehouse complexes and inventory, liability insurance. The purpose of studying the discipline is to form students' knowledge, skills and abilities in the field of current insurance legislation, objects and subjects of insurance in logistics.	6	MC12 LO6 LO8
23	Loading and unloading technology	The discipline studies the theory of their calculation, determination of the main indicators for the selection of types of technologies in the design of complex mechanization and automation of loading and unloading operations and warehouse operations. Highly efficient technological processes with the main cargoes transported by railways are being studied, as well as ways of transshipment of these cargoes from narrow gauge to wide gauge, from railway to water and road transport and back. The discipline outlines the main provisions of the maintenance and repair of loading and unloading machines, labor protection and nature.	5	MC16 LO10 LO12
Cycle of basic disciplines/Component of choice				
24	Business Economics	The discipline forms students' complex of knowledge, skills and abilities in the field of socio-economic relations arising in the process of functioning of a commercial organization, disclosure of the essence of the main categories,	5	MC11 LO1 LO2 LO3

		patterns and methods of functioning of a commercial organization.		
25	Business planning	The discipline studies theoretical knowledge and the development of skills in the functioning of market structures based on a comprehensive understanding of existing approaches, differentiated methods and tools of business planning. Formation of students' scientific and applied business planning apparatus and prospective business modeling for the near and long term, taking into account many and constantly changing conditions of the external and internal environment, as well as the formation of promising specialists for the implementation of applied business planning tasks using scientific approaches and tools of related disciplines.	5	MC11 LO3 LO4 LO13
26	1C -Accounting	The study of the discipline will allow you to apply techniques and methods of accounting and analysis to specific calculations; analyze the facts of economic activity of an organization based on accounting data; calculate economic and socio-economic indicators of economic entities based on accounting data; use computer programs for accounting automation in professional activities.	6	MC11 LO2 LO11
27	Innovative financial analysis	The discipline forms an understanding of the concepts underlying the methodology of financial analysis, the nature and approaches to the study of investment risks; definition of debatable aspects of the theory of financial analysis and the main directions of their further study; development of skills in choosing analytical tools to justify decisions on the main objects of management: company development strategy; investment policy; operational; financing of a commercial organization; its business, investment and financial risks; familiarization with the principles and procedures for monitoring the effectiveness of a commercial organization and ensuring the growth of its value. Development of practical skills of financial analysis in the framework of interaction of enterprises with commercial banks and insurance companies; formation of the necessary and sufficient information base of various areas of financial analysis.	6	MC11 LO2 LO3 LO4
28	Marketing logistics	The discipline studies a management system that allows you to adapt production to market requirements to ensure a profitable sale of goods. Marketing explores the market, advertising, psychological impact on the buyer, etc. Logistics, first of all, is aimed at creating a technical and technological system for carrying goods along commodity distribution chains, as well as a control system over their passage.	6	MC11 LO4 LO5
29	Strategic logistics management	The discipline studies the formation of professional knowledge for the development and implementation of an organization's development strategy based on a logistics approach. The discipline provides logistics knowledge about the levels of strategic management, principles of strategic management, methodology of strategic analysis of the business environment and justification of strategic alternatives.	6	MC11 LO3 LO4

30	International cargo transportation	The discipline examines the main provisions governing the international transportation of passengers and cargo between the two countries, bilateral agreements, special permits for the transportation of bulky, heavy and dangerous goods, permits of the ITF (ECMT), customs systems and customs documents, Customs Convention (TIR Convention), transport insurance on international road transport, the European Green Card system.	6	MC12 LO6 LO9
31	Technology and organization of cargo transportation	The discipline considers the complex of measures of the transport and transportation process. Organization of rolling stock movement and transportation routing, freight transportation technology, rolling stock and organization of agricultural cargo transportation, elements of the transport process during cargo transportation, fundamentals of route technology.	6	MC12 LO11 LO12
32	Customslogistics	The discipline considers the tasks of ensuring the delivery of goods between countries and aimed, among other things, at optimizing foreign economic activity. The tasks of customs logistics include: Filling in the customs declaration, including expert assessment of goods; checking of goods for compliance with the customs declaration; documentary preparation; organization and conduct of flights; after customs escort of cargo; responsible storage of cargo; licensing certification of imported goods that require these procedures, etc.	6	MC12 LO8 LO9
33	Infrastructuremanagement	The discipline examines the principles and features of the formation of urban economy, the management of its infrastructure, the relationship with the infrastructure of public and private sectors of the economy. The current state of the municipal economy, the peculiarities of the management of the housing and communal services of the city, the issues of regulation of its engineering and transport infrastructure are considered.	6	MC12 MC14 LO6 LO8
34	Modelinginlogistics	The discipline is designed for the introduction of information technologies in the field of logistics. Information support of logistics management is one of the most important and urgent problems. The purpose of the discipline is to study the information support of the logistics process. This implies the following tasks: consideration of the role, significance and prospects of using information technology, the problems of implementing information technology in the field of logistics, as well as a brief overview of the main software products that are used in logistics systems.	5	MC13 LO2 LO11
35	Mathematicalmodelinginlogistics	The subject of the discipline is variables and their interdependencies. An important concept of mathematical modeling is a function. With the help of functions, the variety of quantitative patterns in the logistic processes of the movement of material resources is mathematically expressed. A necessary condition for the application of mathematical analysis methods is the establishment of functional dependencies, after which the resulting function is examined at an extremum and subjected to a comprehensive analysis.	5	MC13 LO2 LO11

36	ProductionLogistics AIC	The discipline studies the management of material flows in the field of production, distribution, exchange and consumption of agricultural products, including the resource provision of the agro-industrial complex and the sale of finished products of the complex in order to fully meet the needs of the population and the national economy in agricultural raw materials and products of its processing.	6	MC15 LO8 LO9
37	Industries for the production of consumer goods	The discipline studies a set of measures for the production of consumer goods. The structure of the output of consumer goods. The main sources of formation of goods in agriculture. Types of products and goods in the system of animal husbandry and crop production. Related products and raw materials of agricultural animals.	6	MC15 LO9 LO10
Cycle of profile disciplines /Component of choice				
38	Transportation in supply chains	The discipline studies the organization, planning, control and regulation of the flow of goods, starting with the receipt of an order and the purchase of raw materials and supplies to ensure the production of goods, and then through production and distribution, bringing it with optimal resource costs to the end user in accordance with market requirements. Material flows and service flows (service flows), as well as related information and financial flows.	6	MC14 LO7 LO9
39	Supply chain management	The discipline studies the basic concepts and definitions of the theory of key business processes in supply chains. Modern concepts of logistics and supply chain management, procedures for the development of logistics systems and business networks, current directions for improving the efficiency of an enterprise using the logistics lever, the main patterns of supply chain functioning are considered.	6	MC14 LO10 LO11 LO12
40	Freight forwarding services	The discipline considers a complex of operations and services for the delivery of goods from the manufacturer of products to the consumer. Forwarding services are closely related to transportation processes and the technologies used for cargo delivery. Within the framework of the issue under study, it is advisable to identify the following basic concepts and definitions: a separate operation or a group of operations directly aimed at satisfying a specific customer's need for a transport expedition and characterized by the availability of the necessary technological, economic, informational and legal support.	6	MC16 LO6 LO8 LO9
41	Transport and logistics infrastructure	The discipline includes consolidation of cargo flows, their transfer to public transport, information, financial, etc. transportation services, organization of distribution and delivery of goods arriving at the address of the transport and logistics center, organization of warehouse, terminal sites for various purposes, providing general issues of logistics infrastructure management, information and computing centers, container sites, considers tasks representing a complex of engineering networks and other structures.	6	MC16 LO9 LO12
42	Logistics management	The discipline studies mastering the skills of	5	MC15

	of the industry	comparative cost calculations and ways to optimize them, familiarization with the experience and advantages of the functioning of integrated logistics centers, familiarization with the logistics service system, understanding the essence, formation of knowledge about modern methods of organization, management of material, information and human resources based on optimization of flow processes in conditions of stricter requirements for competitiveness, limited resources, trends towards globalization.		LO5 LO6 LO7
43	Managing logistics risks	The discipline studies the methods of identification, assessment, management and control of risk, methods of assessment and management of logistics risk in the process of logistics activities. The objectives of mastering this discipline are solid assimilation of theoretical knowledge on the basics of logistics risk management, acquisition of practical skills in analyzing logistics risks at the enterprise, understanding the possibilities of logistics risk management to improve the efficiency of the enterprise.	5	MC15 LO7 LO8
44	Logistics of storage of agricultural product	The discipline studies the management of material and information flows in warehouses, the technology of processing and storage of cargo units, processing customer orders, organization of delivery of goods. The warehouses of agricultural enterprises store spare parts, fuel and lubricants, seed materials, reserve stocks.	6	MC15 LO10 LO12
45	Procurement and production logistics	The discipline studies the types of work whose ultimate goal is the timely purchase and delivery of material resources or goods to the organization with minimal costs. The procurement process is understood not only as the purchase of material resources or goods, but also as the organization of internal supply of the organization's divisions and the delivery of material resources and goods to the right places.	6	MC15 LO6 LO8 LO10
46	Distribution logistics	The subject of study in distribution logistics is the rationalization of the process of physical distribution of the available stock of materials and the following issues are solved: orders are distributed between different suppliers when purchasing goods; cargo is distributed to storage locations when entering the enterprise; inventory is distributed between different production sites; material flows are distributed during the sale process, etc.	5	MC15 LO4 LO5
47	Sales logistics	The discipline studies the process of managing material flows during the sale of finished products; a set of interrelated functions implemented in the process of distributing material and related (information, money and service) flows between different consumers. The object of study of the discipline is the material and accompanying (generated by it) information, financial and service flows.	5	MC15 LO4 LO5 LO6
48	SHP logistics	The discipline studies the management of material flows in the field of production, distribution, exchange and consumption of agriculture, including the resource provision of agriculture and the sale of	5	MC15 LO8 LO9 LO10

		finished products in order to fully meet the needs of the population and the national economy in agricultural raw materials and products of its processing.		
49	Logistics of supply and storage of agricultural products	Be able to analyze the requirements for the supply system of agricultural products, analyze transport services during transportation of agricultural products and its quality and analyze ways to solve transport and production problems.	5	MC15 LO8 LO9
50	Agricultural transport logistics	The discipline studies the functioning of agricultural transport is characterized by specific features due to sharp seasonal fluctuations in the volume of work, a wide variety of goods and requirements for their safety, the need for processing and storage of agricultural products, the dispersal of shippers, difficult road conditions, tight deadlines for basic agricultural work.	6	MC16 LO8 LO9
51	Unified transport system	The discipline studies the relationship between the development of transport systems, transport systems, the division of transport into independent professional activities; global trends in the development of various types of transport, the main indicators characterizing the work and development of transport systems, indicators of technical equipment, network development, transport, technical and operational work. As a result of mastering the discipline, the student should be able to give a brief economic and geographical description of the field of technical equipment and application of various types of transport, the structure of the transport system of the Republic of Kazakhstan, the main directions of cargo and passenger flows.	6	MC16 LO9 LO12
52	Design of logistics systems	The discipline studies the development and improvement of students' skills as logistics specialists in the aspects of building a company's logistics system, the expertise of the company's logistics, the choice of methods for modeling the main logistics business processes, managing the design process, evaluating the effectiveness of the project at all stages of its implementation. As a result of studying the discipline, the student must study the basic aspects of designing logistics systems, the functions and stages of designing the logistics system of the company, master the basics of system analysis of logistics during the design.	6	MC16 LO11 LO13
53	Logistics transport and cargo systems	Studying the discipline gives students knowledge about the basics of transport logistics in the field of freight transportation, teach students to give a competent economic assessment of technical, technological and organizational measures in the field of improving transportation and commercial work. The objectives of the discipline are the following: definition of the theoretical concept of the logistics system and its effective use in commercial practice by firms and enterprises, transport aspects and warehousing system in the logistics system; methods for assessing the logistics system, methods for assessing logistics costs and ways to reduce them.	6	MC16 LO11 LO12

**5. Summary table reflecting the amount of credits mastered in the context of the educational program:**

Curriculum	Half year	The number of investigate disciplines			Number of academic credits						Total academic hours	Military preparation	Quantity	
		CC	UC	OC	Theoretical Education	Educational practice	Internship	Undergraduate practice	Final certification	Total			Exam	Differentiated credit
<b>I</b>	<b>1</b>	4	3	-	31					31	930		7	-
	<b>2</b>	4	2	1	29	2				31	930		6	1
<b>II</b>	<b>3</b>	3	3	1	30					30	900		7	-
	<b>4</b>	1	5	1	27		4			31	930		6	1
<b>III</b>	<b>5</b>	-	2	3	30					30	900		5	-
	<b>6</b>	-	1	4	24		6			30	900		4	1
<b>IV</b>	<b>7</b>	-	3	3	26		4			30	900		5	1
	<b>8</b>	-	1	3	18			4	8	30	900		3	1
<b>Total</b>		<b>12</b>	<b>20</b>	<b>16</b>	<b>215</b>	<b>2</b>	<b>14</b>	<b>4</b>	<b>8</b>	<b>243</b>	<b>7290</b>	<b>588</b>	<b>43</b>	<b>5</b>



## Appendix for Educational program

### Appendix 1

#### Practice bases

№	Name of companies, enterprises, organizations	Contacts Tel, e-mail
1	"EurasianBridgeKazakhstan" ЖИІС	8 (727) 2650241 <a href="mailto:eurasian.bridge@gmail.com">eurasian.bridge@gmail.com</a>
2	TOO «MK - Global Logistics»	8778-676-63-01 8702-351-55-64 <a href="mailto:m.z.k@list.ru">m.z.k@list.ru</a>
3	"KEDEN-SERVICE LOGISTIC" ЖИІС	8(727)385-50-16 <a href="mailto:af-keden-service@mail.ru">af-keden-service@mail.ru</a>
4	"ART &Forwardingcompany" ЖИІС	8777 002 67 76 <a href="mailto:sklad@abtrans.kz">sklad@abtrans.kz</a>