

Al-Farabi Kazakh National University
Higher School of Economics and Business
Syllabus
(PLS 4305) Design of Logistics Systems
Autumn semester 2021-2022
on the educational program "Logistics"

Code of discipline	Name of discipline	Number of hours				Number of credits (ECTS)	IWST
		IWS	Lec	Prac.	Lab		
(PLS 4305)	Logistics	98	15	30	-	3 (ECTS – 5)	7
Academic information about course							
Type of training	Course type	Lecture type	Types of seminars		Quantity of WRS	Form of final control	
Online	Basic/ practical	Classical, explanation, research, visualization, interactive	Case, conversation, interactive lesson, consultation, research, business game, brainstorming		3	Written on the platform "Oqulyq"	
Lecturer	Kozhakhmetova Assel Kosherbaevna, PhD, senior lecturer						
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Academic presentation of course							
The aim of the course	Expected learning outcomes (LO)		Indicators of achievement (IA)				
The course is designed to from the students' ability to apply the theoretical and practical foundations of logistics for designing logistics systems, to obtain special knowledge required for effective design of logistics systems.	<p>As a result of studying the discipline, the student will be able to:</p> <p>LO 1 - explain the process of designing logistics systems on the basis of theoretical approaches and concepts of its creation, as well as determining the algorithm for its implementation;</p> <p>LO 2 – from the skills of applying the methodology for designing the components of the logistics system;</p> <p>LO 3 - apply an analytical system for assessing the activities of logistics management;</p>		<p>In the process of studying the discipline, the student must:</p> <p>IA 1.1. – identify the basis of designing logistics systems in the business environment; IA 1.2. - define the features and functions of logistics systems; IA 1.3. - determine the ways and stages of the designing logistics systems; IA 1.4. – classify the types of logistics, explaining their essential content.</p> <p>IA 2.1. – compare types of logistic flows and operations; IA 2.2. – understand the methods of managing logistics operations; IA 2.3. – classify the elements of the logistics system; IA 2.4. – determine the capabilities of functions used to manage logistics systems.</p> <p>IA 3.1 – classify strategic aspects of logistics; IA 3.2. - calculate the economic efficiency of strategy implementation; IA 3.3 – determine the possibilities of calculating the optimal logistics strategy; IA 3.4. - apply the methods of analyzing the activities of suppliers and manufacturers.</p> <p>IA 4.1 – determine the concepts of production in</p>				

	<p>LO 4 - form a plan of logistics operations in production and apply the skills of effective management of information flows;</p> <p>LO 5 – organize efficient warehousing activities using advanced technologies</p> <p>LO 6 – develop approaches for choosing the optimal distribution channel and efficient transportation.</p>	<p>logistics;</p> <p>IA 4.2. – determine the components and parameters of the plan of logistics activities in production;</p> <p>IA 4.3. – substantiate the specifics of logistics operations and information flow management depending on the type of goods.</p> <p>IA 5.1 – determine the essence of the organization of warehouse activities;</p> <p>IA 5.2 – compare characteristics and conditions for optimal warehousing and storage of goods;</p> <p>IA 5.2 – apply advanced technologies for managing logistics operations in warehousing.</p> <p>IA 6.1 – explain the content of distribution logistics;</p> <p>IA 6.2. – determine the stages of developing a model and structure of optimal transportation;</p> <p>IA 6.3. – classify modes of transport and choose the best option for distributing goods;</p> <p>IA 6.4. - use the rules and requirements for the formation and selection of distribution channels;</p> <p>IA 6.5 – apply the methodology of managing global logistics in foreign transportation.</p>
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Prerequisites Post-requisites	Mar 2204 Marketing Log3220 Logistics
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Literature and Resources	<p>Resources:</p> <ol style="list-style-type: none"> 1. Logistic. Book and workshop / Nerush Yu, A. Nerush 2016. 2. Semenenko A.I., Sergeev V.I., Logistics. Basic theory, M.: 2003. 3. Logistics and supply chain management, M. Christopher, 2014 4. Strategic management of logistics, Textbook / James R. Stock, Douglas M. Lambert, 2005. <p>Available online: Additional training material on "logistics", as well as documentation to prepare for seminars, implementation of the IWS will be available on your page on univer.kaznu.kz site in EMCD section.</p>
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Academic policy of the course in the context of university moral and ethical values	<p>All students undergo online training. The deadlines for completing the modules of the online course must be strictly observed in accordance with the schedule for studying the discipline.</p> <p>ATTENTION! Failure to meet deadlines results in loss of points!</p> <p>Academic values:</p> <ul style="list-style-type: none"> - fulfillment of tasks of lectures / seminars, IWS should be independent, creative in nature; - plagiarism, forgery, use of cheat sheets, cheating at all stages of control are unacceptable; - students with disabilities can receive advice by e-mail – assel.kosherbaevna@gmail.com.
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Assessment and attestation policy	<p>Criteria assessment: midterm controls and exams are assessed in accordance with the descriptors (checking the formation of competencies)</p> <p>Summative assessment: active participation in the work of the lesson, the implementation of special creative tasks</p>
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Calendar (schedule) for the implementation of the content of the training course

Wee k/ date	Topic	LO	IA	Quant ity of hours	Max grade	Form of knowledge evaluation	Class / platform form
Модуль 1 – Introduction and inbound logistics							
1	1. Lecture. The essence and principles of logistics	LO 1	IA 1.1.	2	6	argumentation - discussion based on recommended	ZOOM webinar

						literature / task results	
	1. Seminar discussion. The ways of designing logistics systems	LO 1	IA 1.1.	1	10	argumentation - discussion based on recommended literature / task results	ZOOM webinar
2	2. Lecture exploration. Logistics management in an organization	LO 1	IA 1.2	2	6	argumentation - discussion based on recommended literature / task results	ZOOM webinar
	2. Seminar – brain storming. Comparing logistics operations that helps to design systems	LO 1	IA 1.2	1	10	business game / task results	ZOOM webinar
3	3. Classic lecture. Strategic aspects of logistics management	LO 1	IA 1.3	2	6	case study / task results	ZOOM webinar
	3. Seminar. Defining the functions and methodology of strategy building in logistics systems	LO 1	IA 1.3	1	10	argumentation - discussion based on recommended literature / task results	ZOOM webinar
	IWST: consultation of the implementation of IWS 1 «Procurement logistics: challenges and opportunities in Kazakhstan»					Essay	Zoom Online Consultation / Chat Consultation / WhatsApp Email Correspondence
4-5	4. Classic lecture. The concepts of production: “Just in time” and Kanban	PO 1	IA 1.4 IA 1.5	4	6 6	argumentation - discussion based on recommended literature / task results	ZOOM webinar
	4. Interactive seminar. Modern technologies of production logistics	LO 1	IA 1.4 IA 1.5	2	10 10	argumentation - discussion based on recommended literature / task results	ZOOM webinar
	IWST: defense of IWS 1 IWS 1. presentation «Procurement logistics: challenges and opportunities in Kazakhstan»	LO 2	IA 2.1. IA 2.2 IA 2.3. IA 2.4		20	Essay	students uploading the completed assignment to univer.kaznu.kz
Midterm 1					100		
Modul 2 – Outbound logistics							

6	5.Lecture-research. Quality control in logistics management	LO 2	IA 2.1 IA 2.2 IA 2.3	2	6	case study / task results	ZOOM webinar
	5. Seminar exploration. Foreign technologies of quality control	LO 2	IA 2.2 IA 2.3 IA 2.4	1	10	Rationale - discussion / assignment results	ZOOM webinar
	IWS: consultation of the implementation of IWS 2 Applying quality control technologies in Kazakhstani company						Zoom Online Consultation / Chat Consultation / WhatsApp Email Correspondence
7	6. Lecture explanation. Modeling of logistics systems.	LO 3	IA 3.1 IA 3.2	2	6	argumentation - discussion based on recommended literature / task results	ZOOM webinar
	6.Seminar consultation. Identifying optimal models for applying in logistics	LO 3	IA 3.1 IA 3.2	1	10	problem solving tasks / task results	ZOOM webinar
8-9	7. Classic lecture. Distribution technologies in logistics management	LO 3	IA 3.1 IA 3.3	4	6/6	Rationale - discussion based on strategic analysis tools / assignment results	ZOOM webinar
	7. Seminar consultation. Optimal distribution channels	LO 3	IA 3.1 IA 3.3	2	10/10	business game / task results	ZOOM webinar
10	8.Lecture. Logistics service.	LO 3	IA 3.1 IA 3.4	2	6	case study / task results	ZOOM webinar
	8. Seminar consultation. Logistics service in the organizational structure of the enterprise	LO 3	IA 3.1 IA 3.4	1	10	Rationale - discussion / assignment results	ZOOM webinar
	IWST: defense of IWS 2 CPC 2. Applying quality control technologies in Kazakhstani company	LO 3 LO 4	IA 3.2 IA 3.3 IA 4.1 IA 4.2		20	Essay	students uploading the completed assignment to univ.kaznu.kz
(Midterm examination)					100		
Modul 3 – Applying logistics models and technologies							
11	9. Lecture exploration. Global logistics management	LO 4	IA 4.1 IA 4.2	2	5	argumentation - discussion based on recommended literature / task results	ZOOM webinar
	9. Seminar consultation. Tools and techniques of global logistics	LO 4	IA 4.2	1	9	business game / task results	ZOOM webinar
	IWST: consultation on the						Zoom Online

	implementation of IWS 3 Comparative analysis of 4 modes of transport for efficient transportation of products						Consultation / Chat Consultation / WhatsApp Email Correspondence
12	10. Lecture discussion. Current transport corridors: challenges and future technologies	LO 4	IA 4.1 IA 4.3	2	5	argumentation - discussion based on recommended literature / task results	ZOOM webinar
	10.Seminar discussion Justifying the role of Kazakhstan in the development of worlds transport corridors	LO 4	IA 4.1 IA 4.3	1	9	Rationale - discussion / assignment results	ZOOM webinar
13	11. Lecture. Digitalization of logistics: trends and opportunities	LO 5	IA 5.1 IA 5.2	2	5	work on the technique of associations / task results	ZOOM webinar
	11. Seminar-game. Methods and techniques of digitalization of logistics	LO 5	IA 5.2	1	9	business game / task results	ZOOM webinar
14	12. Interactive lecture. Modern technologies in logistics	LO 5	IA 5.1 IA 5.3	2	5	Rationale - discussion based on strategic analysis tools / assignment results	ZOOM webinar
	12.Seminar discussion. TQM methods application	LO 5	IA 5.3	1	9	case study / task results	ZOOM webinar
	IWST: defense of IWS 3 IWS 3. Сравнительный анализ 4-видов транспорта для эффективной транспортировки продукции	LO 5	IA 5.1 IA 5.2 IA 5.3 IA 5.4 IA 5.5		20	Presentation of work	students uploading the completed assignment to univ.kaznu.kz
15	13. Lecture. Information Logistics optimization	LO 5	IA 5.1 IA 5.4		5	Rationale - discussion based on strategic analysis tools / assignment results	ZOOM webinar
	13.Interactive seminar. Applying information logistics for evaluating and controlling quality	LO 5	IA 5.1 IA 5.2		9	case study / task results	ZOOM webinar
	IWS: colloquium game demonstrating the use of basic terms, provisions, tools and techniques for analyzing the topics of the course	LO 1-5	IA 1.1- IA 5.5.		10	Business game	ZOOM webinar
Midterm control 2					100		
Exam					100		

Dean, d.e.s., acting professor

Sagieva R.K.

Method Soviet chairperson, c.e.s., associate professor

Kozhamkulova Zh.T.

Head of the Department of Business Technologies,
c.e.s., associate professor

Akhmetova Z.B.

Lecturer, PhD, senior lecturer

Kozhakhmetova A.K.