



I APPROVE  
 Director of the Institute "LU"  
 Kaltaev A.K.  
 2023

**CATALOG OF DISCIPLINES OF THE COMPONENT BY CHOICE**

**EDUCATIONAL PROGRAM**

**8D11362 - Logistics (by industry)**

**Education level: Doctoral studies**

**Duration of study: 3 years**

**Year of admission: 2023**

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	
Module 2 - Core competencies	BD	CS	The principle of interoperability in transport	150	5	1	LO4 LO5	Areas of application of intelligent transport systems for various types of transport (conditions and processes, depending). Interoperability requirements, basic properties and types of intelligent transportation. providing interoperability models. The main approaches, concepts and models are used for traffic planning and logistics systems provision.	Disciplines of the BD and PD cycle of the Master's degree	IRWD, Final certification, Research practice	LTM

			Methodology for servicing transport users	150	5	1	LO3 LO4	Determination of indicators of the use of the freight car fleet. Assessment of the quality of transportation. Determination of the performance indicators of an air transport company. Determination of performance indicators of main pipelines. Determination of the return on assets of the road division. Determination of the efficiency of the use of fixed assets of the railway. Calculation of the performance plan by a motor transport company.	Disciplines of the BD and PD cycle of the Master's degree	IRWD, Final certification, Research practice	LTM
Module 2 - Core competencies	PD	CS	Modeling of logistics processes in production	150	5	1	LO2 LO4	The proposal, essence and classification of economic research. Modeling of logistics systems. Classes of models of logistics systems. Classification of economic and mathematical methods and models. Flow control methodology. Analytical and simulation modeling. Characteristics, applications and types of software modeling in logistics. Expert systems in logistics.	Disciplines of the BD and PD cycle of the Master's degree	IRWD, Final certification, Research practice	LTM

			System analysis of transport operation	150	5	1	LO2 LO3	The objectives of the disciplines are to analyze the existing transport system, ensure its preparation with the help of various changes and scientifically based tools, the possibility of their restructuring in accordance with changes in the situation, as well as to study the nature of flexible processes in various volatile factors, solving planning problems, forecasting the operation of flexible systems, flexible networks. , the organization of operational, calendar management of the identification of events.	Disciplines of the BD and PD cycle of the Master's degree	IRWD, Final certification, Research practice	LTM
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Head of the Department of «Logistics Management in Transport»

Mussaliyeva R.D

**AGREED:**

Candidate of Technical Sciences, Assistant to the President  
of a freight forwarding company  
LLP "Shyngar Trans"



Toktamyssova A.B.