

«Logistics zhane baskar» institute directors



CATALOG OF DISCIPLINES OF THE OPTIONAL COMPONENT

EDUCATIONAL PROGRAM

7M11354 Logistics (by industry)

Level of education: master's degree

Duration of study: 1,5 year

Year of admission: 2023 year

Module	Cycle	Component	Name of the discipline	General labor intensity		Semester	Learning Outcomes	Brief description of the discipline	Prerequisites	Postrequisites	Бекітілген кафедра-лар
				in academic hours	in academic credits						
1	2	3	4	5	6	7	8	9	10	11	12
Module 1 - Process management in logistics	BD	EC	Lean manufacturing	270	9	2	ON1 ON5	Studies the basics of organization management based on the principles of lean production: minimizing all types of losses in the course of activity, achieving the maximum possible result in the shortest possible period of time, rational use of all types of resources, improving aspects of the organization's activities, involving employees in technological processes; formation of lean thinking among future managers, correlated with the ideas of concepts relevant to the modern world sustainable development and conscious consumption.	Supply chain management and business intelligence, Freight forwarding	Internship, Experimental research work of a master's student, including internship and master's project	TLM

1	2	3	4	5	6	7	8	9	10	11	12
			SMART technologies in transport				ON4 ON8 ON10	The intellectual technologies used in railway transport are considered and studied. The basic concepts of the current state and prospects for the development of railway transport infrastructure based on SMART technologies are described. Familiarization of students and the formation of skills for assessing the improvement of operational safety of railway infrastructure facilities, taking into account the development of computer technologies, software and artificial intelligence. Active teaching methods and brainstorming are used.	Supply chain management and business intelligence, Freight forwarding	Internship, Experimental research work of a master's student, including internship and master's project	TLM
Module 2 – Logistics technologies	PD	EC	Freight forwarding	270	9	1	ON1 ON7 ON9	Designing transport and technological schemes for the delivery of goods, the ability to organize forwarding control in the preparation of goods for shipment. Ability to apply the rules of freight forwarding by all modes of transport, using international conventions in the organization of international transportation. When studying the discipline, semester work is used, in which situational tasks are solved.	Undergraduate disciplines	Logistics risk management in supply chains, Automation / robotization of logistics processes	TLM
			Modern enterprise management tools				ON1, ON5, ON10	Modern tools for effective enterprise management are considered: costs, supply, storage, distribution of enterprise resources. Establish effective methods for managing the work of the enterprise, use the performance indicators of the enterprise management assessment system, offer information, innovative technologies that ensure the efficiency of the enterprise. When studying the discipline, semester work is used, in which situational tasks are solved.	Undergraduate disciplines	Operational development methodology, Automation / robotization of logistics processes	TLM
Module 3 – Risk management in logistics	PD	EC	Logistics risk management in supply chains	180	6	2	ON10	The study of risk analysis and management methods based on the classical approach of risk theory, the concept of utility, the use of a decision tree, market risk management. Redistribution of logistics risks, management of logistics risks based on their diversification for orientation in applied work on analysis and risk management in supply chains and obtaining risk management skills based on the methods listed above. Within the framework of the	Supply chain management and business intelligence, Strategic manage-	Internship, Experimental research work of a master's student, including internship and master's project	TLM

1	2	3	4	5	6	7	8	9	10	11	12
								discipline, interactive teaching methods, the calculation-analytical method, the case-task method, game methods are used.	ment and innovation in supply chains		
			Risks in logistics				ON10	Formation of knowledge on risk management: planning, identification, analysis, preparation of a response plan, monitoring and control to identify hazards, calculate potential impacts and take measures to eliminate them. Risk assessment and damage determination using methods based on the modern apparatus of statistics, mathematics, probability theory and modeling, as well as the collection and analysis of information necessary to solve the set production problems. Within the framework of the discipline, interactive teaching methods, the calculation-analytical method, the case-task method, game methods are used.	Freight forwarding, Strategic management and innovation in supply chains	Internship, Experimental research work of a master's student, including internship and master's project	TLM
Module 4 – Organization, planning and management in supply chains	PD	EC	Strategic management and innovation in supply chains	180	6	1	ON6 ON8	Formation of a modern understanding of the processes of solving strategic problems both at the level of the company's logistics department and at the level of the supply chain management structure by studying the scientific foundations of the principles, methods and tasks of organizing strategic management in cargo supply chains, the functioning of innovative activities in supply chains, and modeling innovations in supply chain engineering and technology. As part of the study of the discipline, guest lectures by representatives of production are provided.	Undergraduate disciplines	Lean manufacturing, Experimental research work of a master's student, including internship and master's project	TLM
			Supply Chain Inventory Management				ON3 ON6	The study of the theory of inventory management to ensure their sufficient volume for the production of the planned quantity of goods on time at the minimum cost of their maintenance using methods for predicting the need for inventory. Establish basic inventory management models in supply chain links, apply management methods for various groups of stocks, be able to allocate resources in supply chains to determine the costs associated with production and build a stock management model. As part of the	Undergraduate disciplines	Logistics risk management in supply chains, Experimental research work of a master's student, including internship	TLM

1	2	3	4	5	6	7	8	9	10	11	12
								study of the discipline, guest lectures by representatives of production are provided.		and master's project	
Module 5 - Automat- tion of business processes	PD	EC	Automation / robotization of logistics processes	180	6	2	ON3 ON4	The use of computer software and automated mechanisms to improve the efficiency of logistics operations. Management of supply chain systems and enterprise resource planning systems. Use the features of the development of technological processes of automated production. Provide recommendations for the effective implementation of business process automation technologies (conveyor belt or unmanned vehicles) to reduce work completion time. Within the framework of the discipline, the implementation of the EIRM is provided.	Manage- ment, Freight forwarding	Internship, Experimental research work of a master's student, including internship and master's project	TLM
			Methods and models of decision making in logistics				ON4 ON8	Studying the principles of organizing planning and operational analysis of various methods and models for decision-making in logistics. Establish expert judgment in decision making. Mastering the methods of calculating the simulation of the transportation process. To develop the norms of labor costs and determine the qualitative and quantitative indicators of the enterprise. Analyze the obtained research data on the examination of technological processes. Apply a system-dynamic approach to modeling decision making in logistics. Within the framework of the discipline, the implementation of the EIRM is provided.	Manage- ment, Freight forwarding	Internship, Experimental research work of a master's student, including internship and master's project	TLM
Total				1080	36						

Head Department of Logistics and Transport Management

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AGREED:

GLOBAL TRANS LOGISTICS LLP

Head

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