

«Logistics zhane baskar» institute directors

APPROVED

Қалтаев А.Қ.



CATALOG OF DISCIPLINES OF THE OPTIONAL COMPONENT

EDUCATIONAL PROGRAM

7M11356 Resource-saving production logistics

Level of education: master's degree

Duration of study: 2 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	Department
				in academic hours	in academic credits						
1	2	3	4	5	6	7	8	9	10	11	
Module 1 – Personal, social and humanitarian competencies	BD	EC	Theory of Probability and Mathematical Statistics	120	4	1	ON3	The theory of probabilities and mathematical statistics studies the simplest theorems of probability theory, systems of random variables, mathematical models for analyzing random phenomena for their adequate description and understanding, methods for solving standard problems using basic analytical tools, mathematical methods for constructing probable models and implementing these methods on real problems of natural science, practical activity and statistical processing of real data	Undergraduate disciplines	Logistic analysis of the activities of transport enterprises, Logistics modeling and enterprise planning	YAP
			System analysis				ON3	The discipline studies the issues that involve conducting research by performing a sequence of pre-planned actions both with any variables or constant objects of research, and with complex systems. Objects can be a variety of problems discovered during the development of new and the functioning of previously created systems, and identified in the very processes of preparation and decision-making			

1	2	3	4	5	6	7	8	9	10	11	12
Module 2 – Research Competen cies	BD	EC	Strategic management	90	3	1	ON3	Formation of master students' basic practical skills in the field of strategic management of enterprises and organizations, strategic analysis of the external and internal environment of the company, the company's competitive strategy and corporate management strategy. The discipline will study: methodology of strategic management; analysis of strategic factors; management analysis; portfolio analysis; competitive advantages and diversification	Undergraduate disciplines	Transport project management, Logistics risk management in supply chains	Automa- tion and control
			Business research				ON3	The discipline studies the concept of business, the history of development, science and scientific research, the logic of the research process and its main stages, the construction of the research structure, the information support of business research, the collection of empirical data, the methodology of analysis based on the BCG matrix, marketing information system, processing and analysis of primary data, analysis of market conditions	Undergraduate disciplines	Transport project management, Logistics risk management in supply chains	Automa- tion and control
Module 3– Economic and manage- rial competen cies	BD	EC	Practice work on professional foreign language	60	2	2	ON2	The discipline "Practical training in a professional foreign language" includes mastering a foreign language at the international level (for non-linguistic directions). Preparation of written reports on topics related to the scientific work of a master's student. Development of skills in working with official documentation on various forms and types of international cooperation, explanatory and bilingual terminology dictionaries, as well as reference literature on the educational program. Development of skills of written and oral two-way translation	Foreign language (Professional)	CAD/CAM technologies, Automation/robotization of logistics processes	Logis- tics and Trans- port Manage- ment
			Academic writing				ON2	The discipline "Academic Writing" is a methodology for writing scientific texts: essays, master's theses, articles, public presentation and discussion of scientific papers at international conferences. The ability to formulate and justify your own thoughts, ideas and convey them to the target audience. Improve the skills of writing	Pedagogy of higher education, Scientific research methods	Market research of transport and logistics services, Research practice	

1	2	3	4	5	6	7	8	9	10	11	12
								scientific texts, the ability to structure, format, select the style and language of description, bibliographic description of printed publications and electronic resources			
Module 4 – Professional Competencies	PD	EC	Transport project management	180	6	2	ON4, ON5	The discipline studies the formation of a project idea. Planning of the project implementation in transport. Technology of project activity: the life cycle of the project, its main stages. Project quality assessment. Methodology of project management in transport. Project management standards. Resource management in the project. Project management tools. Project analysis. Description of business processes. Drawing up a business model. Software tools. Change management and project completion	Theory of Probability and Mathematical Statistics, Scientific research methods	CAD/CAM technologies, Automation/robotization of logistics processes	Logistics and Transport Management
			Transport project assessment				ON4, ON5, ON8	The discipline studies the regularity of project evaluation, taking into account the specifics of individual modes of transport and the transport system as a whole. The basic concepts of project management in transport, studies methods and forms of effective organization, studies the patterns of transport development in the logistics system, the development of methods for managing logistics activities based on information technology for evaluating projects in the field of transport	Theory of Probability and Mathematical Statistics, Scientific research methods	CAD/CAM technologies, Automation/robotization of logistics processes	
	PD	EC	Logistic analysis of the activities of transport enterprises	180	6	2	ON5, ON6	Study of scientific foundations of modern and promising technological processes of transport enterprises. Logistic analysis of production activities of transport enterprises. Evaluation of transport enterprises. Competitiveness of the transport and logistics system of the enterprise. Analysis of transport flows of enterprises. Evaluation of efficiency and ways to improve the management of transport and logistics activities of transport enterprises	Scientific research methods, Lean logistics	Logistics modeling and enterprise planning, Design and organization of cargo storage and handling systems	

1	2	3	4	5	6	7	8	9	10	11	12
Module 4 – Professional Competencies			Modern enterprise management tools				ON5, ON8	The discipline studies modern tools for effective enterprise management. Costs, supply, warehousing, distribution of enterprise resources. The concept of effective management of the enterprise. Performance indicators of the enterprise management evaluation system. Information, innovative technologies that ensure the efficiency of the enterprise	Scientific research methods, Lean logistics	Logistics modeling and enterprise planning, CAD/CAM technologies	Logistics and Transport Management
	PD	EC	Market research of transport and logistics services	180	6	2	ON8, ON9	Studying the scientific foundations in the field of providing transport and logistics services based on methods and indicators for assessing the effectiveness of enterprises. Market research of transport and logistics services in Kazakhstan. Logistic intermediaries in the provision of transport and logistics services, control over the quality of the provision of transport services. Research on transport services for consignors and consignees. Methods for studying and forecasting the demand for transport services	Theory of Probability and Mathematical Statistics, Scientific research methods	Logistics risk management in supply chains, Research practice	
			Methods and models of planning and management in logistics				ON6, ON7, ON11	The discipline studies the methods of analysis and management used to develop new products and technologies. Modeling of a complex of works, planning of business projects. Methods that take into account the variety of connections between transport operations. Structure and methods of mathematical analysis in the field of production, transportation, transmission of information. Optimization of the process of planning and management of the complex of works on production, transportation and distribution of products	Theory of Probability and Mathematical Statistics, Scientific research methods	Logistics modeling and enterprise planning, Design and organization of cargo storage and handling systems	
PD	EC	CAD/CAM technologies	150	5	3	ON7, ON10	The discipline studies the purpose, classification and scope of modern integrated CAD (CAD/CAM systems). Purpose and composition of modern CAD modules (systems). Purpose and composition of modern CAM modules (systems). Purpose, composition and application features of the most common integrated CAD systems	Transport project management, Lean logistics	Research work, Final examination		

1	2	3	4	5	6	7	8	9	10	11	12
Module 4 – Professional Competencies			Demand and resource management				ON7, ON8	The discipline studies the study of supply and demand in inventory management in an enterprise. Types and categories of inventories. Classification of inventories of material resources. The concept of inventory. Justification of the need for reserves. Management of inventories of material resources, economic essence of inventories. Methods for standardizing the resource management system	Lean logistics, Market research of transport and logistics services	Research work, Final examination	Logistics and Transport Management
	PD	EC	Logistics modeling and enterprise planning	150	5	3	ON6, ON0, ON11	The discipline considers the planning, organization and control of the work of the enterprise. The use of methods and models in the management and planning of the enterprise. Technological process as an object of automation. Mathematical models of approximation type. Parametric identification of mathematical models. Simulation approach to modeling the work of an enterprise: using the AnyLogic software package. Modeling of project business at the enterprise and its calculation	Theory of Probability and Mathematical Statistics, Scientific research methods	Research work, Final examination	
			Information support of transport and logistics systems				ON4, ON8, ON9	The discipline studies the features of the construction and functioning of information and identification systems that ensure the functioning of transport and logistics systems. The use of information resources to reduce the complexity of production processes. The main directions of development of information and identification technologies. Local and global information networks: Internet technologies, search engines, information servers, interactive stores, browsers. Technology of electronic data exchange	Lean logistics, Market research of transport and logistics services	Research work, Final examination	

1	2	3	4	5	6	7	8	9	10	11	12
Module 4 – Professional Competencies	PD	EC	Design and organization of cargo storage and handling systems	150	5	3	ON6, ON11	The discipline examines the warehouse, provides calculations of the warehouse, advanced technologies of transport processing and storage of goods in the warehouse. Planning and development of technological schemes for the movement of goods. Organization of cargo storage and handling systems. Development and design of high-capacity storage systems. Development of crane equipment control systems, equipment automation. Maintenance of technically complex equipment, modernization of lifting equipment. Addressable cargo storage	Lean logistics, Market research of transport and logistics services	Research work, Final examination	Logistics and Transport Management
			Strategic and tactical production planning				ON4, ON6, ON8	The discipline examines the essence of strategic and tactical production planning. The concept of forecasting and planning logistics processes. Basics of planning types of work. Intra-company planning of production processes. Functional logistics planning of operations. Strategic and tactical planning of production processes	Logistic analysis of the activities of transport enterprises, Market research of transport and logistics services	Research work, Final examination	
	PD	EC	Automation/robotization of logistics processes	150	5	3	ON4, ON9	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	Scientific research methods, Strategic management	Research work, Final examination	

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Module 4 – Professional Competen- cies			Methods and models of decision- making in logistics				ON1, ON6, ON11	Study the principles of planning and operational analysis of various methods and models for decision-making in logistics. Expert assessment decision-making. Mastery of calculation methods of transportation process modeling. Develop labor cost standards. Determination qualitative and quantitative performance of the enterprise. Analysis of the obtained data of studies on the examination of technological processes. System-dynamic approach to decision modeling in logistics	Scientific research methods, Strategic manage- ment	Research work, Final examination	Logis- tics and Trans- port Manage- ment
<b>Total</b>				<b>1410</b>	<b>47</b>						

Head Department of Logistics and Transport Management

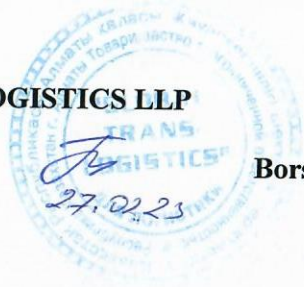
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27.02.23

Musalieva R.D.

AGREED:

GLOBAL TRANS LOGISTICS LLP

Head



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