

Syllabus
of the discipline “**Logistics**”
Specialty 073 - Management
Specialization “Business Administration”
Level of education – bachelor
2 course, 2 semester, 5 credits
(lectures – 32 hours, practicals – 32 hours, independent work – 86 hours)

Lecturer: PhD in Economics, Assoc. Prof. Mazorenko O. V.

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Management and business department

Teacher (practical classes): PhD in Economics, Assoc. Prof. Mazorenko O. V.

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A brief summary of the discipline. The purpose of the discipline is: formation of modern theoretical knowledge and practical skills for using principles and techniques of logistics in the general system of management of the company. The result of the discipline is learning and using the general principles and laws of the integrated management of material, information, financial and other flows, establishment and operation of logistics systems, optimal control of logistics processes.

As a result of learning the discipline students must have the following **competence**: the study of the discipline provides the formation of the ability to formulate, choose and implement logistics decisions at the micro and macro level of economic development, create and support different supply chains for different goods and services.

Content of the discipline

Structure of lectures

Theme 1. Logistics – an instrument of the market economy

The concept, essence and tasks of logistics. Preconditions, causes and stages of the logistics development. The modern definition of logistics as a science of management of flow processes. Basic concepts of logistics. Levels of formation of logistics.

Theme 2. The concept and methodology of the integrated logistics

The principles of modern logistics concepts. The basic characteristics of the concept of logistics. The basic rules of logistics. Framework for the integration of logistics. Integration of internal and external material flow.

The system approach as a methodological base of logistics. Logistics systems and principles of their formation. The properties of the logistics systems. Classification of logistic systems. Links of logistics systems. Logistics network.

Theme 3. The objects of the logistics management and logistics operations

Objects of logistics management and logistics activities. Characteristics of flow processes in logistics. The concept of material flow and the parameters that characterize it. Information flows and their classification. Financial flows and their classification. Integrated logistics flows.

Theme 4. Logistics activity and logistics functions

Logistic processes and logistics activities. Key logistics activities. Organizing logistics activities. The basic logistics functions and their allocation between various participants of the logistic process.

Theme 5. Logistics management in the general management

Definition and role of logistics management. Logistics mission and logistics environment of the firm. Types of decisions. Types of logistics strategies. Logistics and strategic planning. The essence and components of strategic plan. The concept of a supply chain. Types of the organizational structures of logistics management.

Theme 6. Logistics approach to management of material flows in manufacturing

The traditional and logistics concepts of production. Goals, objectives and functions of production logistics. Push and pull systems of material flows management in production logistics. Organizing supply of material resources and inventory management in micro-manufacturing logistics systems.

Theme 7. Logistics approach to management of material flows in circulation

Organizing distribution of materials and finished products. Distribution, the main functions. Logistics channels and logistics chains. Types and features of the distribution channels. Logistics intermediaries in the distribution, their classification and function. Designing distribution systems.

Theme 8. Logistics approach to customer service

The concept of logistics services. Provision of customer services as a means of improving the competitiveness of participants of logistic system. Classification of service. Developing a policy for customer service.

Theme 9. Warehouse and transportation in logistics

The role of warehouses in the production and distribution of the products. Types and functions of warehouses in the logistics system. The main problems of warehousing of material resources in the logistics. Warehousing operations. Determination of the number and location of the warehouse networks. The choice of storage. Transport modes and their characteristics. Logistics estimation of transport.

Theme 10. Economic support of logistics

The structure and scope of logistics costs. The impact of logistics costs in the market value of the products. Increased efficiency of the products and services through the management of logistics costs. The concept of minimizing total costs.

Structure of practical classes

Theme 1. Logistics – an instrument of the market economy

A history of logistics. The main stages of logistics development. Modern trends in logistics

Theme 2. The concept and methodology of the integrated logistics

The role of the logistics systems in optimizing company activity.

Theme 3. The objects of the logistics management and logistics operations

Schemes of interaction of the logistics flows. Parameters of the logistics flows

Theme 4. Logistics activity and logistics functions

Key logistics functions and their allocation between departments of an enterprise.

Theme 5. Logistics management in the general management

Logistics philosophies. Contemporary logistics strategies. Types of logistics organizational structures.

Theme 6. Logistics approach to management of material flows in manufacturing

Material requirements planning. Inventory carrying costs. Applying inventory models.

Theme 7. Logistics approach to management of material flows in circulation

Network design. The role of the intermediaries in the distribution.

Theme 8. Logistics approach to customer service

The role of the customer service in the company activity. Assessment of the customer service

Theme 9. Warehouse and transportation in logistics

Warehouse location analysis. Choice of transport and the carrier. The costs of warehousing and transporting goods. Standard logistic solutions to optimize warehouse and transport subsystems

Theme 10. Economic support of logistics

The structure and scope of logistics costs . Logistics cost optimization

Evaluation criteria

Taking into account the importance of each form of current control, the success of student training of the course is evaluated in the corresponding scores (Table 1) by the formula:

$$R = 2 \cdot A + 3 \cdot B + 2 \cdot C + D + 16 \cdot E + 16 \cdot F + G,$$

where R is the final maximum score that a student can obtain for the successful completion of all forms of current control;

A is the maximum number of points a student can get for the task on the topic (A = 4);

B is the maximum number of points a student can get for the theoretical control work on the content of the content module (B = 3);

C is the maximum number of points a student can get for the practical control work (B = 12);

D is the maximum number of points a student can get for completing an essay (B = 7);

E is the maximum number of points a student can get for active work at a lecture (E=0,25);

F is the maximum number of points a student can get for active work at a practicals (F=0,5);

G is a is the maximum number of points a student can get for exam (G=40).

Summary evaluation of the discipline in accordance with the Methods of transferring indicators of students' success into university assessment scale ECTS is converted to the grade on a scale of ECTS (tab. 2).

Table 2

Transference of University Characteristics of Students' Progress into the System of the ECTS Scale

Assessment of the Simonh Kuznets Kharkiv National Univresity of Economics scale	ECTS assessing scale	Assessment due to the national scale	
		для екзамєну, курсового проекту (роботи), практики	для заліку
1	2	3	4
90 – 100	A	excellent	passed
82 – 89	B	good satisfactory	passed
74 – 81	C		
64 – 73	D		
60 – 63	E	unsatisfactory	not passed
35 – 59	FX		

Form of control. Exam.

Recommended literature

1. Крикавський Є. В. Логістика. Основи теорії : підручник / Є. В. Крикавський. – Львів : Національний університет «Львівська політехніка», «Інтелект-Захід», 2004. – 416 с.
2. Крикавський Є. В. Логістичне управління : підручник / Є. В. Крикавський. – Львів : Вид. Національний університет «Львівська політехніка», 2005. – 684 с.
3. Огієнко С. О., Дзьобко І. П. Логістика : конспект лекцій у схемах і таблицях / С. О. Огієнко, І. П. Дзьобко – Х. : ХНЕУ, 2009. – 95 с.
4. Пономаренко В. С. Логістичний менеджмент : підручник / В. С. Пономаренко, К. М. Таньков, Т. І. Лепейко ; за ред. проф., докт. екон. наук В. С. Пономаренка. – Х. : ВД „ІНЖЕК”, 2010. – 440 с.
5. Таньков К. М. Виробнича логістика : навч. посібн. / К. М. Таньков, О. М. Тридід, Т. О. Колодизєва. – Х. : ВД „ІНЖЕК”, 2006. – 352 с.
6. Тридід О. М. Логістика : навч. посібн. / О. М. Тридід, Ю. О. Леонова. – К. : ВД «Профксіонал», 2008. – 176 с.
7. Уотерс Д. Логистика. Управление цепью поставок : пер. с англ. / Д. Уотерс. – М. : ЮНИТИ-ДАНА, 2003. – 503 с.
8. Ghiani G. Introduction to logistics system planning and control / G. Ghiani, Laporte G., Musmanno R. – Chichester : John Wiley & Sons, Ltd. – 2004. – 377 p.