

Syllabus
Educational Component of the Elective
(a conditional indication EC in Education Program (EP))

Discipline	Integrated Logistics Systems
Higher Education Level	The second one (educational and scientific)
Moodle course page	https://dl.khadi.kharkov.ua/course/view.php?id=2008
Educational Component Volume	4 credits (120 hours)
Final Control	Test
Consultations	According to the schedule
Department	Transport technologies
Language of teaching	English
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Educational Component Summary:

The purpose is to future specialists formation in the field of transport and transport infrastructure theoretical, practical and methodical provisions regarding the logistics systems integration problems independent solution in all activities types related to the material, information and financial flows promotion.

The subject of the study is a pedagogically adapted system of concepts regarding the logistics systems integration principles to optimize the process by promoting material, information and financial flows.

The main tasks of the academic discipline are:

- general principles, methods and techniques of logistics systems integration;
- logistics infrastructure formation principles;
- interaction principles in logistics systems, as well as powers and functions distribution principles;
- globalization levels, their synchronization principles with material, information and financial flows.

Prerequisites for studying the educational component: EC of the first level (bachelor).

Competencies acquired by the applicants:

General competencies:

Ability to work in an international context.

Ability to search, process and analyze information from various sources.

Ability to communicate with other professional groups representatives at different levels (experts from other fields of economic activity knowledge/types).

Ability to evaluate and ensure the quality of the work performed.

Special (professional) competencies:

Ability to research and manage the transport systems and technologies functioning.

Ability to identify and apply promising directions for modeling transport processes.

Ability to manage cargo transportation by transport types.

Ability to use specialized software to solve complex problems in the transport systems and technologies field.

Training results according to the educational program are to:

Search for the necessary information in scientific and technical literature, databases, other sources, analyze and objectively evaluate information in the transport systems and technologies field and related interdisciplinary problems.

To freely discuss professional activity issues, projects and research in the transport systems and technologies field orally and in writing in national and foreign languages.

Make effective decisions in the transport systems and technologies field, taking into account technical, social, economic and legal aspects, generate and compare alternatives, assess the necessary resources and limitations, analyze risks.

Convey your knowledge, decisions and the basis for their acceptance to specialists and non-specialists in a clear and unambiguous way.

Develop new and improve existing transport systems and technologies, determine development goals, existing limitations, performance criteria and use areas.

Develop and analyze graphic, mathematical and transport systems and technologies computer models.

Develop cargo and passenger transportation technologies by transport based mode on research and relevant data.

Manage complex technological and transport systems and technologies production processes, including unpredictable ones and those that require new strategic approaches.

Use specialized software for transport systems and technologies analysis, development and improvement.

Thematic plan

Theme, №	Theme (L, LW, PW, SEW)	Hours	
		full-time training	part-time training
1	L - Conditions for effective logistics systems integration	2	2
	PW (LW, SEW)	-	-
	SEW - Regulatory and legal framework for logistics systems	14	14
2	L - Logistics infrastructure formation	2	2
	PW (LW, SEW) - The logistics infrastructure elements optimal number calculation	4	2
	SEW - Transportation economical regulation	8	10
3	L - Interaction in logistics systems	2	-
	PW (LW, SEW) – The transport type choice in logistics systems	4	-
	SEW - Accounting and settlements with clients	8	14
4	L - Logistics systems globalization	2	-
	PW (LW, SEW)	-	-
	SEW - Global logistics chain	14	16
5	L - The integration theory	2	2
	PW (LW, SEW) – The logistics facilities location determination	4	-
	SEW - Logistics strategy formation	8	12
6	L - External and internal integration	2	-
	PW (LW, SEW)	-	-
	SEW - Real-time logistics management	14	16
7	L - Relationship management in logistics systems	2	-
	PW (LW, SEW) – Customers / suppliers segmentation based on the personal criteria calculation	2	-
	SEW - Relationships planning and control	10	14
8	L - System integration	2	-
	PW (LW, SEW) – Logistics costs estimation for reengineering	2	-
	SEW - Logistics reengineering	12	16
In total	L	16	6
	PW (LW, SEW)	16	2
	SEW	88	112

Teaching methods:

- 1) verbal: 1.1 traditional: lectures, explanations, stories, etc.;
- 2) visual: illustration method, demonstration method

3) practical: 3.1 traditional: practical classes, seminars;

Evaluation system and requirements:

The final evaluation of the discipline is determined by adding the total sum of points on practical and theoretical preparation.

Ongoing achievement

- survey (0-20 points);
- level of knowledge on defending practical (laboratory) works (0-20 points);
- timely execution and defending practical (laboratory) works (0-10 points);
- attendance (0-10 points).

Table 1 – Assessment of the level of practical training

Component of the final evaluation	Points			
	16-20	11-15	6-10	0-5
Survey	The answer to the question is complete, concrete, contains definitions of terms, classification	The answer contains not a complete definition of terms, classification	The answer contains the definition of the basic terms with the help of the teacher	The wrong answer is given, the undiscovered essence of the question
Level of knowledge on defending practical (laboratory) works	The student gives the answer to the method of decision, correctly presented calculations and complete conclusions	The student gives the answer to the method of decision, in calculations there are minor errors or inaccuracies, conclusions are not presented completely	The student passes the general sense on the method of decision, in calculations there are significant errors or inaccuracies, conclusions are not presented completely	The student cannot convey the general sense of work, in calculations there are significant errors or inaccuracies, no conclusions are given
Component of the final evaluation	Points			
	9-10	6-8	2-5	0-1
Timeliness of execution and defending practical (laboratory) works	The student defends the work the same week, when it began	The student defends the work during the next week, after its beginning	The student defends the work during the month when it started	The student defends the work before the final control
Attendance	The student attended more than 90% of the classes	The student attended from 75% to 90% of the classes	The student attended from 50% to 75% of the classes	The student attended less than 50% of the classes

Assessment of theoretical training level (0-40 points):

- polling or conducting of the current control in the form of the test or control tasks (0-30 points);
- attendance (0-10 points).

Table 2 – Assessment of the level of theoretical training

Component of the final evaluation	Points			
	24-30	16-23	8-15	0-7
Survey	The answer to the question is complete, concrete, contains definitions of terms, classification	The answer contains definitions of terms, classification	The answer includes the definition of the basic terms	The given answers are incorrect, the question essence is undiscovered
Component of the final evaluation	Points			
	9-10	6-8	2-5	0-1
Attendance	The student attended more than 90% of the classes	The student attended from 75% to 90% of the classes	The student attended from 50% to 75% of the classes	The student attended less than 50% of the classes

The result of the study is estimated (choose required):

- on a double scale (passed/failed) according to table 2;
- on a 100-point scale (for differentiated test) according to table 3.

Table 3 – Conversion of the score into the national evaluation system

According to 100- point scale	According to the national scale
between 60 scores and 100 scores	Passed
Less than 60 scores	Failed

Table 4 – Applicants' evaluation score scale according to the final control of the academic discipline.

Evaluation score in points	Evaluation score according to national scale		ECTS grades	
			Grade	Criteria
	exam	test		
90-100	Excellent		A	The theoretical content of the course is mastered completely, without gaps, the necessary practical skills to work over the mastered material are developed, all the training tasks provided by the program are accomplished, the quality of their performance is estimated by the number of points close to the maximum
80-89			B	The theoretical content of the course is mastered completely, without gaps, the necessary practical skills to work over the mastered material are basically developed, all the training tasks provided by the program are accomplished, the quality of performance of most of them is estimated by the number of points close to the maximum.
75-79			C	The theoretical content of the course is mastered completely, without gaps, some practical skills to work with the mastered material are not developed sufficiently, all the training tasks provided by the program are accomplished, the quality of performance of none of them is estimated by the minimum number of points, some tasks can have mistakes
	Good	passed		
	Very good			

Evaluation score in points	Evaluation score according to national scale		ECTS grades	
	exam	test	Grade	Criteria
67-74	Satisfactory		D	The theoretical content of the course is partially mastered, but the gaps are not significant, the necessary practical skills to work over the mastered material are basically developed, most of the training tasks provided by the program are accomplished, some of the completed tasks may contain mistakes
60-66			E	The theoretical content of the course is partially mastered, some practical skills to work over the mastered material are not developed, many training tasks according to the program are not completed, or the quality of performance of some of them is estimated by the number of points close to the minimum.
35-59	Unsatisfactory	Failed	FX	The theoretical content of the course is partially mastered, practical skills to work over the mastered material are not developed, most of the tasks provided by the programs are not completed, or the quality of their performance is estimated by the number of points close to the minimum; additional self-education work according to the course can improve the quality of the performance of educational tasks (in case of the second study)
0-34	Failed		F	The theoretical content of the course is not mastered, the necessary practical skills to work over the mastered material are not developed, all the completed educational tasks contain serious errors, additional self-education work according to the course doesn't have any significant quality improvement in educational tasks performance (due to mandatory second study)

Course policy:

- the course involves working in the team where the environment is friendly, creative, open to constructive criticism;
- the discipline requires mandatory attendance of lectures and practical classes, as well as self-education work;
- self-education work involves studying certain discipline themes, which are submitted in accordance with the program for self-education work, or have been considered briefly;
- all the tasks provided by the program must be completed within the prescribed time-frame;
- if the higher education applicant is absent for valid reasons, he/she passes the completed tasks during the self-education work and consultations provided by the teacher;
- while studying the course, higher education applicants should follow the rules of academic integrity set out in such documents: «Rules of academic integrity of participants of the KhNAHU Education process»

(https://www.khadi.kharkov.ua/fileadmin/P_Standart/pologeniya/stvnz_67_01_dobroch_1.pdf),

«Academic integrity. The text check of academic, scientific and qualification works for the plagiarism»

(https://www.khadi.kharkov.ua/fileadmin/P_Standart/pologeniya/stvnz_85_1_01.pdf), «Moral and ethical code of participants of the KhNAHU educational process»

(https://www.khadi.kharkov.ua/fileadmin/P_Standart/pologeniya/stvnz_67_01_MEK_1.pdf).

- in case of detecting the plagiarism, the applicant receives 0 points for the task and must retake the tasks provided in the syllabus;
- cheating during control works and examinations is prohibited (including mobile devices). Mobile devices are only allowed to be used during online testing.

Reference:

1. Денисенко М.П. Організація проектування логістичних систем: підручник / М.П. Денисенко, П.Р. Левковець, Л.І. Михайлова та ін. К.: ЦУЛ, 2010. 336 с.
2. Калініченко О. П., Нефьодов В. М., Павленко О. В. Оптимізація рішення задач оперативного планування вантажних перевезень на автомобільному транспорті. ХНУМГ імені О.М. Бекетова, Науково-технічний збірник «Комунальне господарство міст», № 142, 2018. С. 108-113.
3. Нефьодов В. М., Павленко О. В., Калініченко О. П. Побудова моделі системи перевезення партійних вантажів у міжміському сполученні. ХНУМГ імені О.М. Бекетова, Науково-технічний збірник «Комунальне господарство міст», № 142. 2018. С.103-107.

Extra-reference:

1. EC distant course / [Електронний ресурс]. – Access regime: <https://dl.khadi.kharkov.ua/course/view.php?id=2008>
2. Законодавство України. – [Електронний ресурс].- Legislation of Ukraine. – [Electronic resource]. – Access mode: <https://zakon.rada.gov.ua/laws>
3. Кабінет Міністрів України. – [Електронний ресурс]- The Cabinet of Ministers of Ukraine. – [Electronic resource]. – Access mode: <https://www.kmu.gov.ua/ua>
4. Міністерство інфраструктури України. – [Електронний ресурс]. –Ministry of Infrastructure of Ukraine. – [Electronic resource]. – Access mode: <https://mtu.gov.ua/>
5. Національна бібліотека ім. В.І. Вернадського. – [Електронний ресурс].- The National Library of Ukraine named by V.I. Vernadsky – Access mode: <http://www.nbuv.gov.ua/>

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