

**PJSC "Higher Education Institution" INTERREGIONAL ACADEMY OF
PERSONNEL MANAGEMENT"**

Danube branch



SYLLABUS

of the academic discipline (selective)

MULTIMODAL TRANSPORTATION AND FORWARDING

Specialty **D3 Management**

Educational level: **First (bachelor's) level**

Educational program: **Management**

General information about the academic discipline

Name of the discipline	Multimodal transportation and forwarding
Code and name of specialty	D3 Management
Level of higher education	First (bachelor's) level
Discipline status	Selective
Number of credits and hours	3 credits / 90 hours Lectures: 16 Seminars/practical classes: 14 Students' independent work: 60
Terms of study of the discipline	8 semester
Language of instruction	Ukrainian
Type of final control	Pass/fail (credit)

General information about the teacher. Contact information.

Darushyn Oleksandr Volodymyrovych	
Academic degree	PhD in Economics
Position	Associate Professor of the Department of Economics and Management
Areas of scientific research	Management of agrologistics systems and development of port infrastructure in the context of globalization
Links to the registers of identifiers for scientists	Google Scholar https://scholar.google.fi/citations?user=_JcEi7cAAAAJ&hl=uk&authuser=1&citsig=AM0yFCnIbC1jtNjY9YIIjNQC2mo- ORCID: https://orcid.org/0000-0002-2379-1816 SCOPUS https://www.scopus.com/authid/detail.uri?authorId=57211933743
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Instructor's portfolio on the website	https://izmail.maup.com.ua/assets/files/darushin-portfolio-a.pdf

Discipline's description.

The discipline "Multimodal Transportation and Forwarding" is a specialized course that reveals the technology of organizing complex chains of cargo delivery on the principle of "door to door" using two or more modes of transport. In the context of globalization and development of the transit potential of Ukraine (in particular the Danube region), the role of a freight forwarder is transformed from an intermediary into an "architect" of transportation. The course covers the study of legal norms, FIATA standards, features of containerization

and the specifics of interaction of rail, road and sea transport in a single technological process.

The subject of the discipline is a set of organizational, economic and legal relations that arise between participants in the transport process (cargo owners, freight forwarders, carriers and terminals) during the organization of multimodal transportation.

The aim of the discipline is to form students' professional competencies in designing optimal delivery routes, calculating end-to-end tariffs and documenting cargo at all stages of multimodal transportation.

The objectives of the discipline are aimed to provide for a comprehensive study of the regulatory framework of multimodal transportation, including the provisions of the Law of Ukraine "On Multimodal Transportation" and key international conventions. In addition, the course is aimed at practical mastering of the rules for issuing shipping documents (FBL, CMR, SMGS, bills of lading), acquiring skills in calculating the cost of transportation and additional port dues, as well as forming a deep understanding of technological processes operation of "dry ports" and container terminals.

As a result of studying the selective educational component "Multimodal transportation and forwarding", applicants must:

Know:

- the essence and differences of multimodal, intermodal and combined transportation;
- rights, obligations and limits of responsibility of the freight forwarder in accordance with national and international legislation;
- types and technical characteristics of cargo containers and rolling stock;
- basic terms of delivery of Incoterms 2020 and their impact on the distribution of logistics costs;
- features of tariff setting on different modes of transport.

Be able to:

- to develop optimal routes for the delivery of goods, taking into account the criteria of time, cost and risks;
- draw up freight forwarding contracts and transportation documents;
- calculate the end-to-end tariff (freight) for multimodal transportation;
- to coordinate the interaction of related modes of transport at transshipment points (ports, terminals);
- organize cargo insurance and resolve disputes in case of damage or loss.

Prerequisites for the discipline. The discipline is taught in the eighth semester and is based on the thorough knowledge gained by students during the previous three years of study, in particular within the framework of the courses "Enterprise Economics", "Operational Management" and "Management of Foreign Economic Activity". A key feature of the educational process is close integration with disciplines such as "Logistics Management" to understand the general flow.

Post-requisites for the discipline. The acquired competencies are the necessary applied tools for the successful completion of production and pre-graduation practice in freight forwarding companies. The formed knowledge is directly used in the performance of the bachelor's qualification work in terms of calculating logistics costs and optimizing business processes.

Content of the academic discipline

№	Topic name	Teaching Methods/Assessment Methods
Topic 1	Conceptual Foundations of Multimodal Transportation	<p>Teaching methods:</p> <ul style="list-style-type: none"> - The educational process involves a combination of lectures (review, problem, visualization lectures) and practical classes in the form of seminars-discussions. - Interactive methods are widely used to form applied skills: case study, brainstorming, working in small groups, and performing analytical projects while working independently. <p>Assessment methods</p> <p>Assessment is carried out according to the cumulative system and includes:</p> <ul style="list-style-type: none"> - current control: oral questioning, express testing, solving situational problems and defense of individual tasks; - modular control: written modular control work (MCR) after the completion of content blocks; - final control (written work with theoretical and practical tasks).
Topic 2	Organization of freight forwarding activities	
Topic 3	Regulatory regulation of transportation	
Topic 4	Multimodal Systems Infrastructure	
Topic 5	Interaction of modes of transport in supply chains	
Topic 6	Containerization as the basis of multimodal transportation	
Topic 7	Tariff policy and pricing	
Topic 8	Organization of transportation with the participation of sea transport	
Module Assessment Task		
Final assessment: pass/fail (credit)		

Technical Equipment and Software.

Material and technical support of the educational process involves the use of specialized classrooms and library funds. Multimedia equipment (projector, computer) is used to visualize the educational material during lectures and seminars. Practical tasks and in-depth study of individual topics are provided by access to the Internet through free Wi-Fi coverage.

Forms and methods of assessment.

The system of assessment of applicants' knowledge includes current and final (semester) control.

Current assessment is carried out systematically during practical and seminar classes in order to check the level of assimilation of theoretical foundations, the formation of diagnostic and forecasting skills, as well as the ability to use specialized software for modeling and data analysis.

Forms of student participation in the educational process, which are subject to current control.

Students' participation in the educational process is realized through oral presentations, presentations of analytical research, reports on the results of case studies, as

well as active involvement in professional discussions and brainstorming. The written component of the work includes the performance of control and test tasks, the preparation of analytical notes, abstracts and notes based on the materials of lectures and independent study.

Methods of ongoing assessment include: The methodological tools of control combine oral forms (surveys, interviews) and written types of work (reports, calculation tasks, building models). The assessment is also based on observing the activity of applicants in solving problem situations, checking the results of the presentation of individual projects, and conducting testing with open and closed types of tasks.

Grading system and requirements.

Table of distribution of points received by students*

Topics	Ongoing knowledge assessment						Final control		Total points
	Seminar 1 (Topic 1,2)	Seminar 2 (Topic 3,4)	Seminar 3 (Topic 5)	Seminar 4 (Topic 6)	Seminar 5 (Topic 7)	Seminar 6 (Topic 8)	Module assessment task	Pass /Fail	
Work in a seminar class	6	6	6	6	6	6	20	20*	100
Independent work	4	4	4	4	4	4			

*The table contains information about the maximum points for each type of academic work of a higher education applicant.

Assessment Criteria and Procedure

Assessment of students' educational achievements is carried out in accordance with the current Regulations on Assessment in a Higher Education Institution.

Modular Assessment. Modular Assessment (MA) is carried out at the final lesson of each content block in the form of written testing.

When evaluating the unit test, the volume and correctness of the tasks are taken into account:

- grade "excellent" (A) is given for the correct completion of all tasks (or more than 90% of all tasks);
- grade "good" (B) is given for completing 80% of all tasks;
- grade "good" (C) is given for completing 70% of all tasks;
- the grade "satisfactory" (D) is given for the correct completion of 60% of the proposed tasks;
- the grade "satisfactory" (E) is given if more than 50% of the proposed tasks are correctly completed;
- An "unsatisfactory" (FX) rating is given if less than 50% of the tasks are completed.
- Failure to appear for the unit test - 0 points.

The above scores are converted into rating points as follows:

- "A" - 18-20 points;
- "B" - 16-17 points;
- "C" - 14-15 points;
- "D" - 12-13 points.
- "E" - 10-11 points;
- "FX" - less than 10 points.

The final semester assessment in the discipline "Multimodal Transportation and Forwarding" is a mandatory form of assessment of students' learning outcomes. It is carried out within the terms determined by the curriculum and covers the amount of material determined by the course program.

The final assessment is carried out in the form of a test. A student who has completed all the necessary work is admitted to the semester assessment.

The final grade is given based on the student's learning outcomes during the semester. The student's assessment consists of points accumulated from the results of the current assessment and incentive points.

Students who have completed all the required tasks and received a score of 60 points or higher receive a grade corresponding to the grade received, without additional testing.

For students who have completed all the necessary tasks, but received a score below 60 points, as well as for those who want to improve their score (result), the teacher conducts the final work in the form of a test during the last scheduled lesson in the discipline in the academic semester.

Evaluation of Additional (Individual) Educational Activities

Additional (individual) types of educational activities include the participation of applicants in the work of scientific conferences, scientific circles of applicants and problem groups, preparation of publications, participation in All-Ukrainian Olympiads and competitions and International competitions, etc., in excess of the scope of tasks that are established by the relevant work program of the academic discipline.

By the decision of the department, students who participated in research work and performed certain types of additional (individual) types of educational activities can be awarded incentive (bonus) points for a certain educational component.

Assessment of independent work (Maximum — 4 points)

The total number of points received by a student for independent work is one of the components of academic success in the discipline. Independent work on each topic, according to the course program, is evaluated in the range from 0 to 4 points using standardized and generalized criteria for assessing knowledge.

Scale for evaluating the performance of independent work (individual tasks), evaluation criteria.

Maximum possible assessment of independent work (individual tasks)	Execution level			
	Excellent	Good	Satisfactory	Unsatisfactory
4	4	3	2	0-1

Forms of assessment include: current assessment of practical work; current assessment of knowledge acquisition based on oral answers, reports, presentations and other forms of participation during practical (seminar) classes; individual or group projects that require the development of practical skills and competencies (optional format); solving situational problems; preparation of resumes on independently studied topics; testing; preparation of draft articles, conference abstracts and other publications; other forms that ensure a comprehensive assimilation of the curriculum and contribute to the gradual development of skills for effective independent professional (practical, scientific and theoretical) activities at a high level.

To assess the learning outcomes of a higher education applicant during the semester, a 100-point, national and ECTS assessment scale is used

Summary assessment scale: national and ECTS

Total points for all types of learning activities	ECTS assessment	National scale assessment	
		for exam, course project (work), internship	For pass/fail (credit)
90 – 100	A	excellent	pass
82 – 89	B	good	
75 – 81	C		
68 – 74	D	satisfactorily	
60 – 67	E		
35 – 59	FX	unsatisfactory with the possibility of reassembly	fail unsatisfactory with the possibility of retaking
0 – 34	F	unsatisfactory with mandatory re-study of the discipline	fail with mandatory re-study of the discipline

Discipline's Policy

Successful mastering of the educational component "Multimodal transportation and forwarding" requires high self-discipline and a responsible attitude to the educational process from students. Prerequisites are regular attendance of lectures and practical classes, active participation in classroom work, as well as timely and high-quality performance of all types of independent and control tasks provided for by the program. In case of missing classes or obtaining unsatisfactory results The student is obliged to liquidate academic debt by working out the relevant topics.

An integral part of education is strict adherence to the norms of academic ethics and culture of behavior. The educational process is based on the principles of academic integrity, which involves the exclusive independent performance of all written works, reports and presentations. Any borrowings of thoughts or texts of other authors should be accompanied by correct references to primary sources. Within the course of the course, any manifestations of academic dishonesty are unacceptable, including plagiarism, self-plagiarism, fabrication and falsification of data, cheating, deception, bribery or biased evaluation.

Recommended sources of information

Basic literature:

1. On multimodal transportation: Law of Ukraine dated 21.05.2024 No. 3720-IX. URL: <https://zakon.rada.gov.ua/laws/show/1887-20#Text>.
2. On transport and freight forwarding activities: Law of Ukraine dated 01.07.2004 No. 1955-IV. URL: <https://zakon.rada.gov.ua/laws/show/1955-15#Text>.
3. On approval of the National Transport Strategy of Ukraine for the period up to 2030: order of the Cabinet of Ministers of Ukraine dated 30.05.2018 No. 430-r. URL: <https://zakon.rada.gov.ua/laws/show/430-2018-%D1%80#Text>.
4. Lytvynenko S. L., Gabrielova T. Yu., Yanovskyi P. O., Nesterenko G. I. Transport-Forwarding Activity: Study. Manual. 3rd ed., add. and processing. Kyiv: Condor, 2024. 228 p.
5. Scientific and technical research in the field of transport: a collection monograph / edited by D. V. Lomotka; Academician Technical Sciences of Ukraine. Ivano-Frankivsk: Publisher Kushnir G. M., 2022. Vol. 2. 216 p. URL: <https://ukrtsa.org.ua/wp-content/uploads/2022/02/transport2.pdf>.
6. Yavorskyi Y. P., Velhan I. V., Konyk I. V., Yavorskyi Y. Y. Transport-Forwarding Activity: Study. Manual. Lviv: LEVADA, 2022. 230 p.

Additional literature:

1. Vernyhora R. V., Okorokov A. M., Tsuprov P. S., Pavlenko O. I. Multimodal Transportation as a Basic Segment of the Transit Potential of Ukraine. Transport Systems and Technologies of Transportation. 2017. Vol. 14. Pp. 20–29 DOI: <https://doi.org/10.15802/tstt2017/123148>.
2. Kiiiko A. I. Essence and Features of Transport and Freight Forwarding Activity of Enterprises: Modern Aspect. Bulletin of LTEU. Economic Sciences. 2024. Vol. 79. DOI: <https://doi.org/10.32782/2522-1205-2024-79-14>.
3. Lomotko D. V., Prymachenko G. O. Analysis of the development of multimodal transportation by rail transport in Ukraine. Railway transport of Ukraine. 2023. № 2. Pp. 15–32 DOI: 10.34029/2311-4061-2023-147-2-15-30.
4. Petrenko O. I., Korniyko Y. R. Role of transport operators in the organization of multimodal transportation. Business Inform. 2021. № 8. Pp. 61–67 DOI: <https://doi.org/10.32983/2222-4459-2021-8-61-67>.
5. Ponomareva T. V., Saiko O. S. Tax regulation of the development of multimodal transportation. Business Inform. 2022. № 1. Pp. 211–216 URL: http://nbuv.gov.ua/UJRN/binf_2022_1_32.
6. Development of multimodal transportation in the context of achieving the goals of the European Green Deal: experience of the V4 countries and Romania, opportunities for Ukraine: scientific and analytical note / H. Prytula, Y. Kalat, A. Maksymenko et al. Lviv, 2024. 37 p. URL: <https://ird.gov.ua/irdp/p20230037.pdf>.
7. Khomenko I., Gorobinska I., Gorobinskyi A. Implementation of the world experience of organizing multimodal transportation in Ukraine in the context of ensuring sustainable development. City development. 2025. № 1 (05). Pp. 133–141 DOI: <https://doi.org/10.32782/city-development.2025.1-19>.

8. Shuldiner Y. V., Prymachenko G. O., Petryk S. V., Pashchenko G. S. Development of multimodal transportation under modern conditions. Development of transport. 2024. № 3 (22). Pp. 123–135 DOI: <https://doi.org/10.33082/td.2024.3-22.08>.

Information resources:

1. Verkhovna Rada of Ukraine. Legislation of Ukraine: database. URL: <https://zakon.rada.gov.ua/laws/main/index>.
2. State Service of Ukraine for Transport Safety (Ukrtransbezpeka): official. website. URL: <https://dsbt.gov.ua>.
3. Ministry of Development of Communities and Territories of Ukraine (Sphere of Transport) : official. website. URL: <https://mtu.gov.ua>.
4. State Customs Service of Ukraine: official. web portal. URL: <https://customs.gov.ua> (sections on transit and NCTS).
5. Administration of Sea Ports of Ukraine (USPA) : official. website. URL: <https://www.uspa.gov.ua>.
6. Ukrzaliznytsia: official website of JSC "Ukrzaliznytsia". URL: <https://www.uz.gov.ua>.
7. State Aviation Service of Ukraine: official. website. URL: <https://avia.gov.ua>.
8. Association of International Freight Forwarders of Ukraine (AMEU) : official. website. URL: <https://ameu.org.ua>.
9. FIATA (International Federation of Freight Forwarders Associations) : officer. Site International. Federation of Freight Forwarding Associations. URL: <https://fiata.org/>.
10. UNECE Transport Division : website of the United Nations Economic Commission for Europe (transport section). URL: <https://unece.org/transport>.
11. Lardi-Trans : international. logistician. platform. URL: <https://lardi-trans.ua/>.
12. Center for Transport Strategies (CTS) : inform.-analyt. portal. URL: <https://cfts.org.ua>.