

**NATIONAL UNIVERSITY OF LIFE AND ENVIRONMENTAL SCIENCES OF
UKRAINE**

Department of Entrepreneurship organization and Exchange Activities

APPROVED

Economic Faculty

“__12__”__June____2025____

**CURRICULUM OF ACADEMIC DISCIPLINE
INTERNATIONAL EXCHANGE TECHNOLOGIES**

Area of knowledge 05 Social and Behavioral Science

Specialty 051 Economics

Academic programme International Economics

Faculty Economic

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Description of the discipline “International Exchange Technologies”

The discipline "International Exchange Technologies" is an important component of the training of highly qualified bachelors in international economics. The program of study of the academic discipline "International Exchange Technologies" is compiled in accordance with the educational and professional program for the training of bachelors in the specialty 051 Economics.

The subject of study of the academic discipline is the formation of theoretical knowledge and practical skills in the international exchange technologies of trade, which will ensure the formation of professional competencies in the training of specialists in the AP "International Economics".

Area of knowledge, specialty, academic programme, academic degree		
Academic degree	bachelor's	
Specialty	051 Economics	
Academic programme	International Economics	
Characteristics of the discipline		
Type	Elective	
Total number of hours	150	
Number of ECTS credits	5	
Number of modules	2	
Course project (work) (if any)		
Form of assessment	exam	
Indicators of the discipline for full-time and part-time forms of university study		
	University study	
	Full-time	Part-time
Year of study	3	
Term	5	
Lectures	30 hours	
Practical classes and seminars	15 hours	
Laboratory classes	-	
Self-study	105 hours	
Number of hours per week for full-time students	3 hours	

1. Aim, competences and expected learning outcomes of the discipline

Aim: studies the mechanism of organization and technology of exchange activity of commodity exchanges in countries with market economies. The purpose of studying the course is to form the future specialist's theoretical foundations and practical skills in the international exchange activities and the effective use of exchange transactions in their future professional activities.

Objectives:

- formation of students' knowledge of the organization of international exchange activities;
- acquisition of practical skills in: organization of trade on the international stock exchanges;
- organization of relations with brokerage offices;
- use of exchange information for the organization of highly efficient production and sale of agricultural products.

Acquisition of competences:

Integral competence (IC): The ability to solve complex specialized tasks and practical problems in the economic sphere, which are characterized by complexity and uncertainty of conditions, which involves the application of theories and methods of economic science.

General competences (GC):

GC 3. Ability to abstract thinking, analysis and synthesis.

GC 8. Ability to search, process and analyze information from various sources.

Special (professional) competences (SC):

SC 12. The ability to independently identify economic problems when analyzing specific situations and propose ways to solve them.

Expected Learning Outcomes (ELO):

ELO 10. Analyze the functioning and development of business entities, determine functional areas, calculate relevant indicators that characterize the effectiveness of their activities.

ELO 13. Identify sources and understand the methodology for determining and methods for obtaining socio-economic data, collect and analyze the necessary information, calculate economic and social indicators.

ELO 25. To be able to analyze the principles and patterns of development and international experience of functioning of the world agricultural market.

2. Programme and structure of the discipline

Modules and topics	Number of hours													
	full-time							part-time						
	weeks	total	including					total	including					
			l	p	lab	ind.	s.st.		l	p	lab	ind.	s.st.	
Module 1. Theoretical principles of organization of exchange activities														
Topic. 1: Theoretical principles of the international exchange activity	1		2											
Topic. 2: Development of the international exchange activities	2		2	2										
Topic. 3: Basic principles of regulation of exchange activities in the world	3		2	1										
Topic. 4: Technological principles of the international exchange trade	4		2	2										
Topic. 5: Stockbrokers and their types	5		2	2										
Total for module 1		67	10	7			50							
Module 2. Organizational principles of the international exchange trading in derivatives														
Topic. 6: Economic essence of derivatives and their classification	6-7		4											
Topic. 7: Development of exchange trade in commodity and financial derivatives	8		2	2										
Topic. 8: Basics of futures trading	9-10		4	2										
Topic. 9: Exchange clearing	11		2	2										
Topic. 10: Hedging strategies	12		2	2										
Topic. 11: Options and their types	13		2											
Topic. 12: Fundamental and technical analysis	14-15		4											
Total for module 2		83	20	8			55							
Total hours		150	30	15			105							

3. Topics of lectures

No.	Topic	Hours
1	Topic. 1: Theoretical principles of the international exchange activity	2
2	Topic. 2: Development of the international exchange activities	2
3	Topic. 3: Basic principles of regulation of exchange activities in the world	2
4	Topic. 4: Technological principles of the international exchange trade	2
5	Topic. 5: Stockbrokers and their types	2
6	Topic. 6: Economic essence of derivatives and their classification	4
7	Topic. 7: Development of exchange trade in commodity and financial derivatives	2
8	Topic. 8: Basics of futures trading	4
9	Topic. 9: Exchange clearing	2
10	Topic. 10: Hedging strategies	2
11	Topic. 11: Options and their types	2
12	Topic. 12: Fundamental and technical analysis	4

4. Topic of practical classes

No.	Topic	Hours
1	Topic. 2: Development of the international exchange activities	2
2	Topic. 3: Basic principles of regulation of exchange activities in the world	1
3	Topic. 4: Technological principles of the international exchange trade	2
4	Topic. 5: Stockbrokers and their types	2
5	Topic. 7: Development of exchange trade in commodity and financial derivatives	2
6	Topic. 8: Basics of futures trading	2
7	Topic. 9: Exchange clearing	2
8	Topic. 10: Hedging strategies	2

5. Topics of self-study

No.	Topic	Hours
1	Topic 1-5. Theoretical principles of organization of exchange activities.	50
2	Topic 6-12. Organizational principles of the international exchange trading in derivatives.	55

6. Methods of assessing expected learning outcomes:

- oral or written survey;
- interview;
- test;
- defending practical, design/graphical works, projects;
- self-assessment.

7. Teaching methods:

- problem-based method;
- practice oriented studying method;
- case method;
- project education method;
- research based method;
- learning discussions and debates method;
- team work, brainstorm method

8. Results assessment.

The student's knowledge is assessed by means of a 100-point scale converted into the national grades according to the "Exam and Credit Regulations at NULES of Ukraine" in force

8.1. Distribution of points by types of educational activities

Educational activity	Results	Assessment
Module 1. Theoretical principles of organization of exchange activities.		
Practical work 1.	ELO 10, 13, 25. Understand the economic essence of principles of the international exchange activity. Study the main organizational stages of international exchange trade. Analyze the international exchange situation of organized markets and apply the knowledge gained in practice. Develop trading strategies based on the use of the trading simulator of the Chicago Mercantile Exchange CME Group.	10
Practical work 2.		10
Practical work 3.		10
Practical work 4.		10
Self-study1.	ELO 13, 25. Understand the features of exchange trading in various types of derivatives. Analyze the international exchange situation of organized markets and apply the knowledge gained in practice.	30
Module control work 1.		30
Total for module 1		100
Module 2. Organizational principles of the international exchange trading in derivatives.		
Practical work 5.	ELO 10, 13, 25. Understand the technological principles of development of exchange trade in commodity and financial derivatives. Identify the basic organizational conditions of exchange trading in futures. Be able to conduct fundamental and technical analysis. Analyze the international exchange situation of organized markets and apply the knowledge gained in practice. Develop trading strategies based on the use of the trading simulator of the Chicago Mercantile Exchange CME Group.	10
Practical work 6.		15
Practical work 7.		15
Practical work 8.		10
Self-study2.	ELO 13, 25. Understand the peculiarities of stock exchange activity. Analyze the international stock market situation of organized markets and apply the knowledge gained in practice.	25
Module control work 2.		25
Total for module 2		100
Class work	$(M1 + M2)/2 * 0,7 \leq 70$	
Exam/credit	30	
Total for year	$(\text{Class work} + \text{exam}) \leq 100$	

8.2. Scale for assessing student's knowledge

Student's rating, points	National grading (exam/credits)
90-100	excellent
74-89	good
60-73	satisfactory
0-59	unsatisfactory

8.3. Assessment policy

Deadlines and exam retaking rules	works that are submitted late without valid reasons will be assessed with a lower grade. Module tests may be retaken with the permission of the lecturer if there are valid reasons (e.g. a sick leave).
Academic integrity rules	cheating during tests and exams is prohibited (including using mobile devices). Term papers and essays must have correct references to the literature used
Attendance rules	Attendance is compulsory. For good reasons (e.g. illness, international internship), training can take place individually (online by the faculty dean's consent)

9. Teaching and learning aids:

- e-learning course of the discipline <https://elearn.nubip.edu.ua/course/view.php?id=3108>;
- references to digital educational resources <https://elearn.nubip.edu.ua/course/view.php?id=3108>;
- textbooks, manuals, tutorials <https://elearn.nubip.edu.ua/course/view.php?id=3108>;
- guidelines for studying a discipline by full-time and part-time students:
- Яворська В.О. Методичні вказівки до вивчення дисципліни «Міжнародні біржові технології» для студентів спеціальності 051 Економіка ОПП Міжнародна економіка. Київ : НУБІП України, 2023. 45 с..
- Ільчук М. М., Яворська В. О. Міжнародна біржова діяльність : навч. посіб. Київ : НУБІП України, 2024. 588 с.

10. Recommended sources of information

1. Закон України «Про ринки капіталу та організовані товарні ринки» № 738-IX від 19.06.2020 із змінами № 1587-IX від 30.06.2021 № 2180-IX від 01.04.2022. URL: <https://zakon.rada.gov.ua>.
2. Ільчук М.М., Яворська В.О., Радько В.І. Організаційні засади здійснення біржових операцій на біржовому ринку. *Інфраструктура ринку*. 2021. №52. URL: http://www.market-infr.od.ua/journals/2021/52_2021/6.pdf.
3. Кількість бірж. Офіційний сайт Державної служби статистики України. URL: https://www.ukrstat.gov.ua/operativ/operativ2005/sze/sze_ric/bir/bir_u/kb_u.htm.
4. Масло А. І. Роль та економічне призначення ф'ючерсних контрактів на організованих товарних ринках. *Вісник ШНАУ*. № 2 (102). 2025. С. 13-17.
5. Солодкий М.О., Ільчук М.М., Яворська В.О. Біржова торгівля на товарних ринках: навч. посіб. Київ : Нубіп України, 2023. 642 с.
6. Сутність та особливості фундаментального аналізу міжнародного валютного ринку. Види економічних індикаторів. URL: <http://library.if.ua/book/131/8725.html>.
7. Фундаментальний аналіз фінансових інвестицій. Фінансові коефіцієнти. Індекс Альтмана. Точка беззбитковості. Леверидж. URL: <http://library.if.ua/book/82/5816.html>.
8. Фундаментальний аналіз ринку фінансових інвестицій. URL: http://pidruchniki.com/11970524/investuvannya/fundamentalniy_analiz_rinku_finansovih_investitsiy.
9. Яворська В.О., Солодкий М.О. Особливості підготовки фахівців з підприємництва, торгівлі та біржової діяльності. *Економіка та суспільство*. №29. 2021. URL: <https://doi.org/10.32782/2524-0072/2021-29-5>.
10. Яворська В.О. Аналіз торгівлі деривативними контрактами на міжнародних біржах. *Інфраструктура ринку*. 2022. № 68. URL: <https://doi.org/10.32782/infrastuct68-13>.
11. Яворська В.О. Аналіз ринків капіталу та організованих товарних ринків. *Інфраструктура ринку*. 2022. № 69. URL: <https://doi.org/10.32782/infrastuct69-5>.
12. Яворська В.О. Аналіз біржової торгівлі деривативами на міжнародних товарних і фондових біржах. *Інфраструктура ринку*. 2023. № 75. URL: <https://doi.org/10.32782/infrastuct69-5>.
13. Яворська В.О., Глуша А.С. Оцінка міжнародної біржової торгівлі ф'ючерсами та

опціонами. *Інфраструктура ринку*. 2024. № 80. URL: <https://doi.org/10.32782/infrastructure80-33>.

14. Яворська В.О. Біржова торгівля деривативними контрактами на міжнародних організованих товарних ринках. *Економічний простір*. 2025. №202. URL: <https://economic-prostir.com.ua/journals/202-ekonomichnyj-prostir/>.

15. Derivatives Market. URL: <https://www.sciencedirect.com/topics/economics-econometrics-and-finance/derivatives-market>.

16. Derivative Markets and Instruments. URL: <https://www.cfainstitute.org>.

17. Fundamental analysis. URL: <https://www.cmcmarkets.com/en/trading-guides/fundamental-analysis>.

18. Technical Analysis – A Beginner’s Guide. URL: <https://corporatefinanceinstitute.com/resources/career-map/sell-side/capital-markets/technical-analysis>.

19. Technical Analysis. URL: <https://www.cfainstitute.org/en/membership/professional-development/refresher-readings/technical-analysis>.

20. Офіційний сайт Верхована Рада України. URL: www.rada.gov.ua.

21. Офіційний сайт Державна служба статистики України. URL: www.ukrstat.gov.ua

22. Офіційний сайт Національна комісія з цінних паперів та фондового ринку. URL: <https://www.nssmc.gov.ua>

23. Офіційний сайт Комісія з товарної ф’ючерсної торгівлі США. URL: www.cftc.gov.

24. Офіційний сайт Чиказька товарна біржа. URL: www.cme.com.

25. Офіційний сайт Українська біржа. URL: <http://www.ux.ua>

26. Офіційний сайт Українська енергетична біржа. URL: <https://www.ueex.com.ua>

27. Офіційний сайт Українська універсальна біржа. URL: <https://sale.uub.com.ua>.