



## SYLLABUS

### FUNDAMENTAL AND TECHNICAL ANALYSIS OF INTERNATIONAL MARKETS

**Degree of higher education** - Master  
Specialty – 073 “Management”  
Educational and scientific program – “International Management”

**Academic year:** 2 **Semester:** 3  
**Number of credits:** 5 **Language:** English



#### Teacher Olena Sokhatska

Professor, Doctor of Economics, Professor of the Department of International Economic Relations

Field of scientific interests: international economic relations, international stock markets, financial engineering, international energy markets, foreign economic policy of the world and Ukraine

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#### Description of the discipline

**The goal of the discipline** is a deep rethinking of the existing and creation of new complex knowledge through the formation and development of program competencies in the students, necessary for them to solve the actual problems of research and innovation in the field of fundamental and technical analysis of international markets, reflecting them in their own scientific research.

**The discipline covers** the following main thematic components: fundamental analysis of prices and exchange rates of stock, commodity and currency markets; application of fundamental and technical analysis for forecasting the future price dynamics of the main assets of international markets; application of basic methods and techniques of technical analysis; application of graphic methods and figures of technical analysis for forecasting prices and rates.

**The discipline is aimed** at deepening professional competence regarding the ability to think analytically and practical skills of information systematization for the purpose of processing large data sets, evaluating and forecasting international economic and social phenomena and their impact on international markets.

**In the process of studying the discipline, students acquire the following learning outcomes:**

- to have a scientific holistic view of the economic unity of the world, the regulatory mechanisms of international economic relations at the national, regional and international levels in the conditions of modern processes of convergence and divergence in order to develop scientific approaches to the formation and implementation of an effective foreign economic policy of Ukraine

- to possess analytical thinking and methods of fundamental and technical analysis regarding systematization of information, processing of large data sets, price estimation and forecasting, and scientific research of these phenomena.

**Knowledge:** the essence of fundamental and technical analysis, the general scheme of conducting fundamental

analysis in various markets, necessary for determining the risk and profitability of assets in international markets

**Skills:** to think critically; make informed, responsible decisions; analyze and evaluate information about the situation in specific markets, as well as evaluate the reliability of the source; to study current problems and events; formulate questions based on information; use effective methods, sources and tools for searching for information; summarize information in written, graphic and oral forms; cooperate with others to achieve a goal; to find and make decisions regarding the development of recommendations for entering the markets of various assets and the time of this entry.

### The structure of the discipline

Hours (lect. / prac.) *	Topic	Learning outcomes	Task
2 / 2	1. Fundamental and technical analysis for forecasting the dynamics of future prices and rates on financial and commodity markets	The discipline and its thematic content are aimed at deepening professional competences in researching pricing processes in international markets	Discussion on the need for market participants to be familiar with fundamental and technical analysis
2 / 2	2. Fundamental analysis of the pricing processes of securities rates		Polling and testing
2 / 2	3. Fundamental analysis of securities issuers		Discussion on problems of analysis of issuers of securities
2 / 2	4. Fundamental analysis of the currency market		Presentation of analysis of exchange rates of fiat currencies and crypts
2 / 2	5. Analysis of macroeconomic indicators		Discussion on the expediency of analyzing macroeconomic indicators when making investment decisions
2 / 2	6. Fundamental analysis of commodity markets		Presentation of the results of price research and international commodity markets
2 / 2	7. General characteristics of technical analysis		Polling and testing
2 / 2	8. The history of the emergence of technical analysis as a science		Essay presentation
4 / 4	9. The use of graphic methods in technical analysis		Execution of price charts
2 / 2	10. Graphical analysis of financial markets		Testing
2 / 2	11. Figures of technical analysis		Presentation of figures of technical analysis on price charts of international markets
2 / 2	12. Mathematical methods of technical analysis		Testing

## Literature

1. Про товарні біржі. Закон України 1956-ХІІ 05 від 08.2021 [1587-IX](https://zakon.rada.gov.ua/laws/show/1956-12#Text)  
<https://zakon.rada.gov.ua/laws/show/1956-12#Text>
2. Господарський кодекс України 436-ІV від 06.10.2021. <https://zakon.rada.gov.ua/laws/show/436-15>
3. Податковий кодекс України 2755-VI від 01.08.2021. <https://zakon.rada.gov.ua/laws/show/2755-17#Text>
4. Цивільний кодекс України 435-ІV від 28.10.2021. <https://zakon.rada.gov.ua/laws/show/435-15#Text>
5. Про акціонерні товариства: Закон України 514-VI від 06.10.2021.  
<https://zakon.rada.gov.ua/laws/show/514-17#Text>
6. Про банки і банківську діяльність: Закон України 2121-III, від 05.08.2021.  
<https://zakon.rada.gov.ua/laws/show/2121-14#Text>
7. Про державне регулювання ринку капіталів та організованих товарних ринків: Закон України 448/96-ВР від 05.08.2021. <https://zakon.rada.gov.ua/laws/show/448/96-%D0%B2%D1%80#Text>
8. Про інвестиційну діяльність: Закон України від 18.09.1991 р. № 1560-ХІІ. Дата оновлення: 18.12.2017. URL: <http://zakon.rada.gov.ua/laws/show/1560-12>
9. Про інститути спільного інвестування: Закон України 5080-VI від 01.07.2021  
<https://zakon.rada.gov.ua/laws/show/5080-17#Text>
10. Про інвестиційну діяльність Закон України 1560-ХІІ, від 01.07.2021  
<https://zakon.rada.gov.ua/laws/show/1560-12>
11. Про внесення змін до деяких законодавчих актів України щодо спрощення залучення інвестицій та запровадження нових фінансових інструментів Закон України 738-ІХ від 19.06.2020  
<https://zakon.rada.gov.ua/laws/show/738-20#Text>
12. Про фінансовий лізинг Закон України 201-ІХ, від 04.02.2021  
<https://zakon.rada.gov.ua/laws/show/1201-20#Text>
13. Про фінансові послуги та державне регулювання ринків фінансових послуг: Закон України від 12.07.2001 № 2664-III. [№ 1349-IX від 19.03.2021](#), ВВР, 2021, № 24, ст.205 - вводить в дію з [14.07.2021 № 1591-IX від 30.06.2021](#) – «Про платіжні послуги» вводить в дію з [01.08.2022](#)
14. Про ринки капіталу та організовані товарні ринки: Закон України від 23.02.2006 [№ 738-IX від 19.06.2020](#) Із змінами, внесеними згідно із Законом [№ 1587-IX від 30.06.2021](#)  
<https://zakon.rada.gov.ua/laws/show/3480-15#Text>

### Main:

1. Сохацька О.М., Панасюк В.М., Роговська-Іщук І.В., Вінницький С.І. Фундаментальний та технічний аналізи міжнародних ринків. Електронний підручник. Тернопіль: ЗУНУ. 2022. 307с.  
<http://dspace.wunu.edu.ua/handle/316497/46103>
2. Енергетичні реалії Четвертої промислової революції. Четверта промислова революція: зміна напрямів міжнародних інвестиційних потоків: моногр./ за науковою редакцією д.е.н., проф. А.І. Крисоватого та д.е.н., проф. Сохацької О.М. Тернопіль: Осадца Ю.В., 2018. 478с.
3. Iryna Bashynska, Olena Sokhatska, Tetiana Stepanova, Marina Malanchuk, Sergii Rybianets, Oksana Sobol. Modelling the Risks of International Trade Contracts International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN: 2278-3075, Volume-8 Issue-11, September 2019.  
<https://www.ijitee.org/wp-content/uploads/papers/v8i11/K23130981119.pdf> (SCOPUS)
4. Олена Сохацька, Ольга Кухтин Сучасні тенденції віртуалізації світового фондового ринку. Вісник ТНЕУ. №4. 2020. С.77-91 DOI: <https://doi.org/10.35774/visnyk2020.04.077>
5. Сохацька О.М. Глобальний біржовий ринок зерна: нові завдання України в умовах війни з Росією. Економіка і суспільство. 2022. №45 URL: <https://economyandsosety.in.ua/idex.php/journal/article/view/2004> DOI:10.32782/2022-45-95
6. Panasyuk V., Sokhatska O. Financial Instruments in the World in Ukraine: Accounting and Analytical Concepts. Socio-Economic and Management Concepts /Monograph. International Science Group. Boston (USA). 2021. P.18-27. DOI 10.46299/ISG.2021.MONO.ECON.I
7. Robert A Jarrow and Introduction To Derivative Securities, Financial Markets, And Risk Management, An (Second Edition) (May 16, 2019) 772p.
8. Matthew F. Dixon, Igor Halperin, Paul Bilokon Machine Learning in Finance From Theory to Practice (eBook) Springer Nature Swizerland Chicago, Brookline, London. 2020. DOI.org/10.10007/978-3-030-41068-1

9. James Chen, Gordon Scott(2022) What Is a Commodities Exchange? How It Works and Types URL: <https://www.investopedia.com/terms/c/commoditiesexchange.asp>

10. Futures and Commodities Trading URL: <https://www.investopedia.com/futures-commodities-trading-4689669>

11. <https://www.cftc.gov/LawRegulation/CommodityExchangeAct/index.htm>

12. <https://www.londonstockexchange.com/>

13. NYSE: The New York Stock Exchange <https://www.nyse.com>

14. <https://www.cmegroup.com/>

### Evaluation policy

- **Deadline and retake policy:** Modules are retaken with the permission of the dean's office if there are good reasons (for example, sick leave).
- **Academic Integrity Policy:** write-offs during control work are prohibited (including using mobile devices).
- **Visiting policy:** Attending classes is a mandatory component of the assessment. For objective reasons (for example, illness, international internship, and other reasons), training can take place online with the permission of the university administration.

### Evaluation

The final grade for the discipline "Fundamental and technical analysis of international markets" is calculated as follows:

Credit module 1 30%	Credit module 2 40%	Credit module 3 30%
Surveys during classes (1-6 topics) - 5 points per topic - max. 30 points	Surveys during classes (7-12 topics) 5 points per topic - max. 30 points	Preparation of CPIT - max. 40 points
Modular control work (topics 1-6) - max. 70 points	Modular control work (topics 7-12) - max. 70 points	Protection of CPIT - max. 40 points
		Participation in trainings - max. 20 points

Evaluation scale:

ECTS	Points	Content
A	90-100	excellent
B	85-89	good
C	75-84	good
D	65-74	satisfactorily
E	60-64	enough
FX	35-59	unsatisfactory with the possibility of reassembly
F	1-34	unsatisfactory with a mandatory repeat course