

**КИЇВСЬКИЙ НАЦІОНАЛЬНИЙ УНІВЕРСИТЕТ
ІМЕНІ ТАРАСА ШЕВЧЕНКА
ЕКОНОМІЧНИЙ ФАКУЛЬТЕТ**

Кафедра *економічної кібернетики*

**«ЗАТВЕРДЖУЮ»
Заступник декана
з навчальної роботи**

«___» _____ 20__ року

РОБОЧА ПРОГРАМА НАВЧАЛЬНОЇ ДИСЦИПЛІНИ

APPLIED MICROECONOMICS/ПРИКЛАДНА МІКРОЕКОНОМІКА

для студентів

галузь знань **05 «Соціальні та поведінкові науки»/
05 Social and behavioral sciences**
спеціальність **051 «Економіка»/051 “Economics”**
освітній рівень **бакалавр/ bachelor degree**
освітня програма **Economics**
вид дисципліни **вибіркова/optional**

Форма навчання	денна/full-time
Навчальний рік	2024/2025
Семестр	6
Кількість кредитів ECTS	7

Мова викладання, навчання та оцінювання	англійська/English
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Форма заключного контролю	іспит/exam
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Викладач: Ставицький Андрій Володимирович, доктор економічних наук, професор кафедри економічної кібернетики / Andriy Stavytskyu, Dr. Hab., Professor of Economic Cybernetics Department

Пролонговано: на 20__/20__ н.р. _____ (_____) «__»__ 20__ р.
(підпис, ПІБ, дата)

на 20__/20__ н.р. _____ (_____) «__»__ 20__ р.
(підпис, ПІБ, дата)

КИЇВ – 2024

Розробник: Ставицький Андрій Володимирович, доктор економічних наук, професор, професор кафедри економічної кібернетики / Andriy Stavytskyu, Dr. hab in Economics, Professor, Professor at Economic Cybernetics Department

ЗАТВЕРДЖЕНО

Зав. кафедри економічної кібернетики

_____ (Олена ЛЯШЕНКО)
(підпис)

Протокол № 1 від «28» серпня 2024 р.

Схвалено науково - методичною комісією економічного факультету

Протокол №1 від «30» серпня 2024 року

Голова науково-методичної комісії _____ (Аліна МАГОМЕДОВА)
(підпис)

INTRODUCTION

1. The purpose of the discipline – in-depth study of microeconomic theory based on mathematical models that formalize basic economic concepts.

2. Pre-requisites for a discipline:

1. Know the basic theories of the functioning of microeconomic agents, the causes of market failures.
2. Have the skills to solve the problems of profit maximization for the firm and the expected utility for the individual.

3. Course summary:

The curriculum consists of the following content modules:

1. Models of activity of firms and households. The module deals with the activities of firms and individuals in different market conditions.
2. Behavioral economics. The module examines the issues of market imbalance due to various objective circumstances, in particular, the asymmetry of information. Models that take this impact into account are proposed.

4. Objectives (learning objectives) - in-depth understanding of microeconomic phenomena and concepts, application the methods of microeconomic modeling and analysis, using the results of microeconomic analysis to develop and make management decisions, demonstrate the relationship between microeconomic decisions and macroeconomic policy.

The discipline is aimed at achieving the following general and professional (subject) competencies of the graduate:

The ability to apply economic and mathematical methods and models for solving economic problems

1. GC 4. The ability to apply knowledge in practical problems
2. GC 11. The ability to make informed decisions.
3. SC 11. The ability to substantiate economic decisions on the basis of understanding the regularities of economic systems and processes and using modern methodological tools.

5. Learning outcomes:

<i>Learning outcomes (1- know, 2. - be able 3. - communication**, 4- autonomy and responsibility*)</i>		<i>Methods of teaching and learning</i>	<i>Assessment</i>	<i>% in the final score</i>
<i>Code</i>	<i>Learning outcome</i>			
1.1	Know the basic theories and models of functioning of households, firms, microeconomic subjects	<i>Lecture, laboratory work</i>	<i>Exam, test</i>	20%
2.1	Be able to develop models of microeconomic entities in different conditions of their operation	<i>Lecture, laboratory work</i>	<i>Test, homework</i>	20%
2.2	Be able to aggregate information from several microeconomic models to formulate macroeconomic conclusions	<i>Lecture, laboratory work</i>	<i>Presentation, homework, project, exam</i>	10%
3.1	Present the results of the analysis with the help of analytical calculations	<i>Lecture, laboratory work, project</i>	<i>Presentation, homework.</i>	20%
3.2.	Develop models of microeconomic systems in a team	<i>Lecture, laboratory work, project</i>	<i>Homework, project</i>	10%
4.1.	Carry out an independent research project and modify existing models for the conditions of modern management	<i>Lecture, laboratory work, project</i>	<i>Homework, project</i>	20%

6. Evaluation scheme:

6.1. Forms of student assessment: (max 60 points / min 36 points)

- semester assessment:

1. Homework check (LO 1.1, 2.1, 2.2) - 20 points / 12 points
2. Two tests and independent tests in the classroom (LO 1.1, 1.2) - 20 points / 12 points.
3. Project implementation (LO 3.1, 3.2, 4.1) - 20 points / 12 points.

- final assessment in the form of an exam

A student is not allowed to take the exam if he / she received less than 36 points during the semester.

If the student's grade on the exam is lower than the minimum threshold level (24 points), the points for the exam are not added to the semester grade (considered equal to zero), and the final grade in the discipline is unsatisfactory.

There are 3 blocks of tasks for the exam:

Block 1 - theoretical questions (2 problems);

Block 2 - creative tasks (2 tasks);

Block 3 - calculation task (1 task).

	Semester points	Exam	Final grade
Minimum	36	24	60
Maximum	60	40	100

6.2. Evaluation organization:

Evaluation of 8 homeworks - 2.5 points for each;

Evaluation of 2 tests - 10 points for each;

Evaluation of 1 project - a maximum of 20 points;

Assessment of 5 exam tasks - maximum 40 points (8 points for each task)

In case of additional issues and difficult situations during the educational process, their solution is carried out with reference to the principles of the Regulations on the organization of the educational process at the Taras Shevchenko National University of Kyiv.

6.3. Correspondence Scale

Excellent	90-100
Good	75-89
Satisfactory	60-74
Fail	0-59

7. Thematic plan

№	Lecture	Hours		
		Lecture	Lab.work	Self-work
<i>Content module 1 Modeling of firms and households</i>				
1	Introduction to microeconomic modelling	2	2	10
2	Topic 1. Model of the individual consumer	4	6	16
3	Topic 2. Modelling of firms.	4	4	10
4	Topic 3. Dominant firm	2	2	12
5	Topic 4. Modelling and analysis of external effects.	2	2	10
6	Topic 5. Modelling in asymmetric information markets.	2	2	10
	Test work 1		2	4

№	Lecture	Hours		
		Lecture	Lab.work	Self-work
Content module 2 Behavioural economics				
7	Topic 6. Economic theory of crime.	2	2	10
8	Topic 7. Modelling of markets for factors of production.	8	6	10
9	Topic 8. Modelling of tax policy.	2	2	10
10	Topic 9. Auctions, their types, modelling.	2	2	8
11	Topic 10. Microeconomic modelling of foreign trade.	4	2	8
	Test work 2		2	2
12	Topic 11. Dynamic stochastic models of general equilibrium in microeconomic modelling.	4	2	10
	TOTAL	38	38	130

The total amount **210** hours, including:

Lectures - **38** hours.

Laboratory works - **38** hours.

Consultations - **4** hours.

Self-work - **130** hours.

8. Suggested Reading:

Main:

1. Andriy Stavytskyu's official site. 2021. URL: <http://www.andriystav.cc.ua>
2. Ставицький А.В., Харламова Г.О. Моделювання мікроекономічних процесів. Навч. посібник. К. 2018. 182 с.
3. Kharlamova G.O., Stavytskyu A.V., Melnyk R.A. Financial Management: tutorial. Kyiv, 2021. 182 p. ISBN 978-617-646-501-0
4. Stavytskyu A.V. Economic security of Ukraine: strategy and mechanisms of provision. Kyiv: AgrarMedia Group, 2018. 464 p.
5. Kharlamova, G., Stavytskyu, A., Naumova M. Gender Matters For The Entrepreneurial Activity: Case Of European States // Studies in Business and Economics, Lucian Blaga University of Sibiu, Faculty of Economic Sciences, vol. 15(3), pages 287-302, December. URL: <https://ideas.repec.org/a/blg/journal/v15y2020i3p287-302.html>
6. Browning E.K. Microeconomics: theory & applications / Edgar K. Browning, Mark A. Zupan. – 8th ed. – Hoboken : Wiley, 2004. – 22,596p. : ill. – ISBN 0-471-23064-2
7. Frank R.H. Principles of microeconomics / Robert H. Frank, Ben S. Bernanke. – 2nd ed. – Boston a.o. : McGraw-Hill/Irwin, 2004. – 31,424,[17] p. : ill. + 1 CD-ROM. – ISBN 0-07-255409-6
8. Schmidt S.J. Econometrics / Stephen J. Schmidt. – Boston a.o. : McGraw-Hill/Irwin, 2005. – 15, 427 p. : ill. + 1 CD-ROM. – ISBN 0-07-352306-2
9. Leekley R.M. Applied statistics for business and economics / Robert M. Leekley, Illinois Wesleyan Univ. Bloomington, Illinois, U.S.A. – Boca Raton : CRC Press, 2010. – XIX, 476 p. : ill., tab. – Index: p. 467-476. – ISBN 978-1-4398-0568-8

Additional:

10. International economics. Microeconomics (Міжнародна економіка. Мікроекономіка) : manual / N. Ilarionova. - Kyiv : Ліра-К, 2017. - 315 p.
11. Stavytskyu, A., Kharlamova, G., Giedraitis, V., Cheberyako, O., & Nikytenko, D. Gender question: Econometric answer // Economics and Sociology. 2020. 13(4), 241-255. doi:10.14254/2071-789X.2020/13-4/15
12. Обушна О.М., Ставицький А.В. Навчально-методичний комплекс з курсу „Мікроекономіка” для студентів економічних спеціальностей. – К. : РВВ ІМФ, 2004. – 64 с.
13. Положення про організацію освітнього процесу у Київському національному університеті імені Тараса Шевченка. Режим доступу: <http://www.univ.kiev.ua/pdfs/official/Organization-of-the-educational-process.pdf>.

Electronic resources:

14. <https://www.imf.org/external/index.htm> - International Monetary Fund
15. <https://ec.europa.eu/eurostat/home?> - Statistical office of the European Union
16. <https://bank.gov.ua/> - Національний банк України.