



# MICROECONOMICS 2

## Work program of the discipline (Syllabus)

### Details of the discipline

Level of higher education	First (bachelor's)
Branch of knowledge	05 Social and behavioral sciences
Specialty	051 Economics
Educational program	business enterprise economics
Discipline status	Normative
Form of study	full-time / full-time / part-time
Year of preparation, semester	Second year, autumn semester
The scope of discipline	2 credits (60 hours)
Semester control / control measures	Test
Lessons schedule	rozklad.kpi.ua
Language of instruction	Ukrainian
Information about course leader / teachers	Lecturer, Practical / Seminar: Art. teacher Boichuk Natalka, 0681283368, natalka149@bigmir.net
Course placement	Moodle, Campus

### Curriculum

#### 1. Description of the discipline, its purpose, subject of study and learning outcomes

The **purpose** of the discipline is the formation of students' **competencies**:

**ABILITY:** to show knowledge and understanding of the problems of the subject area, the basics of the modern economy at the micro, meso, macro and international levels, to master the basic principles of the theory of microeconomics; to an in-depth analysis of problems and phenomena in one or more professional areas, taking into account economic risks and possible socio-economic consequences.

After mastering the discipline, students must demonstrate the following **learning outcomes**:

**KNOWLEDGE:** economic laws and the consequences of their manifestation in the behavior of consumers and producers; terminology and basic tools of microeconomic analysis, principles of rational behavior of microsystems in the markets; universal tools of microeconomic analysis for studying the behavior of economic entities in market conditions and methods of its optimization.

**SKILLS:** to understand the principles of economic science, features of economic systems; to analyze the functioning and development of economic entities, to determine the functional areas, to calculate the relevant indicators that characterize the effectiveness of their activities.

## **2. Prerequisites and postrequisites of the discipline (place in the structural and logical scheme of education according to the relevant educational program)**

*It is based on the knowledge acquired by students while studying the disciplines "Economic Theory", "Macroeconomics" and "Microeconomics" and provides a basis for courses "Business Economics", "International Economics", "Management", "Marketing" and other economic disciplines.*

## **3. The content of the discipline**

*The discipline contains credit modules:*

- 1) Theory of market structures, equilibrium and efficiency of the market system*
- 2) Course work*

### **Credit module 1**

#### *Section 1. Theory of market structures*

*Topic 1.1. The market of perfect competition*

*Topic 1.2. Monopoly market*

*Topic 1.3. Oligopoly*

*Topic 1.4. Monopolistic competition*

#### *Section 2. Factors markets*

*Topic 2.1. Labor market*

*Topic 2.2. Capital and land resources market*

#### *Section 3. Equilibrium and efficiency of the market system*

*Topic 3.1. General market equilibrium and economic efficiency*

*Topic 3.2. Institutional aspects of market economy*

### **Credit module 2**

*The working curriculum in accordance with the educational-professional program "Business Economics - Enterprise" of the first bachelor's degree of higher education specialty 051 "Economics" provides course work, the implementation of which students consolidate theoretical and practical knowledge of the discipline.*

#### 4. Training materials and resources

##### Basic:

1. Pindyke Robert S. *Microeconomics: Per. from English // Robert S. Pindyke, Daniel L. Rubinfeld.* - Kyiv: Osnovy, 2002. - 646 p.
2. Grontkovskaya G.E. *Microeconomics. Workshop: textbook. way. for students. higher textbook lock bachelors in the field of "Economics and Entrepreneurship" / G.E. Grontkovskaya, AF Kosik; 2nd ed., Revised. and additional* - K.: ЦУЛ, 2008. - 418 c.
3. Samuelson Paul A. *Microeconomics - Microeconomics: trans. from English / Paul A. Samuelson, William D. Nordhaus; Science. red lane S. Panchishina.* - K.: Основи, 1998. - 544 c.
4. *Microeconomics: Textbook / Ed. by V.D. Bazilevich.* - K.: Knowledge, 2007. - 677 p.
5. *Microeconomics [Electronic resource]: test tasks, exercises and tasks for students of the Faculty of Management and Marketing / NTUU "KPI"; structure N. Boichuk, O. Zaborovets.* - Electronic text data (1 file: 1.1 MB). - Kyiv: NTUU "KPI", 2009. - 107 p. - Name from the screen. - Access from the university network: <http://service.library.ntu-kpi.kiev.ua/documents/E052.doc>
6. *Methodical recommendations for course work in the discipline "Microeconomics 2" for students of the field of knowledge 05 "Social and Behavioral Sciences", specialty 051 "Economics", specialization "Business Economics" full-time and part-time [Electronic resource] / NTUU "KPI"; structure: N. Boichuk.* - Electronic text data (1 file: 343, 5 KB). - Kyiv: NTUU "KPI", 2016. - 39 p. - Name from the screen. - Access: <http://ela.kpi.ua/handle/123456789/18022>

##### Supporting:

1. Bazilevich V.D. *Microeconomics: Reference lecture notes.* - K.: The Fourth Wave, 1997. - 246 p.
2. Gorobchuk T.T. *Microeconomics: teaching method. way. / T.T. Gorobchuk* - K.: ЦУЛ, 2002. - 236 p.
3. Forest A.V. *Microeconomics: Textbook. way. / A. V. Forest.* - K.: CUL, 2003. - 192 p.
4. Kosik A.F. *Microeconomics: Textbook. way. / A. F. Kosik, G.E. Grontkovskaya.* - K.: CSL, 2004. - 416 p.
5. Vinichenko, I.I. *Microeconomics: Textbook / I.I. Vinichenko, N.V. Datsiy, S.O. Koretska; Humanities University "Zaporizhzhya Institute of State and Municipal Administration".* - K.: CSL, 2005. - 272 p.
6. Bazilinska O.Ya. *Microeconomics: textbook. way. / O. Ya. Bazilinska, O.V. Minina; for ed. O.Ya. Basil. / 2nd ed., Revised. and additional* - K.: CSL, 2005. - 352 p.
7. Pilipenko V.V. *Microeconomics: workshop: textbook. for students. higher education lock / V.V. Pilipenko, N.M. Pilipenko; MES of Ukraine, Sumy. nat. Agrarian University* - Kyiv: Center for Educational Literature, 2009. - 298 p.
8. Pilipenko V.V. *Microeconomics: Course of lectures: Textbook. way. / B.B. Pilipenko.* - Sumy: GDP Dream, 2007. - 284 p.
9. Bazilinska O.Ya. *Microeconomics: Theory and Practice: Handbook. / O. Ya. Bazilinska ; National University "Kyiv-Mughal Academy".* - Kyiv: Kyiv-Mohyla Academy Publishing House, 2007. - 271 p.
10. Kalinichenko O.V. *Microeconomics: Workshop: textbook. for students. higher education institutions / O.V. Kalinichenko, L.M. Berezina; Poltava state agrarian academy.* - K.: CEL, 2008. - 432 p.

## Educational content

### 5. Methods of mastering the discipline (educational component)

№ n/o	The title of the lecture and a list of key issues
1	<p style="text-align: center;"><b>The market of perfect competition</b></p> <p>Characteristic features of the market of perfect competition. The concept of aggregate (gross), average and marginal income. Market demand and demand for the company's products in conditions of perfect competition. Graphic representation of demand, average, marginal and aggregate income of the enterprise.</p> <p><b>Basic literature</b> [2, c. 198-210; 3, c. 125-130; 4, c. 155-165; 5, c. 218-250]  <b>Auxiliary literature</b> : [3, c. 117-123]</p>
2	<p style="text-align: center;"><b>Competitive strategy of the enterprise in the short and long term</b></p> <p>Choosing the optimal output, maximizing profits or minimizing losses of the enterprise. The principle of comparing total income with total costs - aggregate analysis. The principle of comparing marginal revenue with marginal cost - marginal analysis. Conditions for profit maximization in mathematical and graphical form. Marginal cost curve as a supply curve.</p> <p>Conditions for long-term equilibrium. Response to a decrease and increase in demand over the long term of the firm, industry. Proposals of the company and the industry in the long run.</p> <p><b>Basic literature:</b> [2, p. 216-220; 4, p. 170-179; 5, p. 260-272]  <b>Auxiliary literature:</b> [3, p. 124-126]</p>
3	<p style="text-align: center;"><b>Monopoly market</b></p> <p>The essence of monopoly. Types of monopolies: closed, open and natural. Market power, its consequences. Factors that determine market power. Selection of optimal production volumes, profit maximization and price determination. Regulation of prices for natural monopoly products. The reaction of the monopolist and purely competitive firms to the government's setting the upper limit of prices, taxes, subsidies.</p> <p><b>Basic literature:</b> [2, p. 221-223; 4, p. 180-185; 5, p. 272-280]  <b>Auxiliary literature:</b> [3, p. 129-134]</p>
4	<p style="text-align: center;"><b>Oligopoly</b></p> <p>Oligopoly and its essence. Strategy of behavior of oligopolistic firms. Pricing and profit maximization. Price war. Cournot model. Laman demand curve. Cost-plus pricing</p> <p><b>Basic literature:</b> [1, p. 170-196; 2, p. 261-318; 3, p. 135-153; 5, p. 291-390]  <b>Auxiliary literature:</b> [10, p. 238-250]</p>
5	<p style="text-align: center;"><b>Monopolistic competition</b></p> <p>Monopolistic competition market and its properties. Situation in the market of monopolistic competition. Market and product strategy of the enterprise (price and production volumes). Profits and losses of the enterprise in the short term. Break-even conditions in the long run. Non-price competition.</p> <p><b>Basic literature:</b> [2, p. 224-230; 4, p. 186-193; 5, p. 281-290]  <b>Auxiliary literature:</b> [3, p. 175-185]</p>
6	<p style="text-align: center;"><b>Labor market</b></p> <p>Features of factor markets. The situation in the markets of factors of production. Interaction of markets. Demand for labor and market supply of labor in a perfectly competitive market. Labor market with imperfect competition. Stages of wage growth. Minimum wage. Differentiation of wage rates.</p> <p><b>Basic literature:</b> [1, p.170-180; 2, p.261-278; 3, p.135-142; 5, p.291-320]  <b>Auxiliary literature:</b> [3, p.143-147]</p>
7	<p style="text-align: center;"><b>Capital and land resources market</b></p> <p>Capital as a factor of production. Assessment of the feasibility of investment. Consumption and investment. Short-term and long-term investments. Land market. Demand and supply for land. Economic rent. Land price.</p> <p><b>Basic literature:</b> [1, p.180-196; 2, p.278-318; 3, p.142-153; 5, p.320-390]  <b>Auxiliary literature:</b> [3, p.164-168]</p>
8	<p style="text-align: center;"><b>General market equilibrium and economic efficiency</b></p>

	<p>The concept of general market equilibrium. The efficiency of the economy in the production sphere. Pareto efficiency. Production capacity curve and consumer indifference curve. Optimal allocation of resources. Welfare evaluation criteria.</p> <p><b>Basic literature</b> [1, p. 245-288; 2, p. 332-345; 3, p. 178-186; 6, p. 375-385]</p> <p><b>Auxiliary literature:</b> [3, p.171-175]</p>
9	<p style="text-align: center;"><b>Institutional aspects of market economy</b></p> <p>Neo-institutional theory of coexistence of economic organizations in various forms. Firm. Allocation of resources. Transaction costs. Institutes. Property rights and their structure. Private, communal and state property.</p> <p><b>Basic literature</b> [1, p. 380-196; 2, p. 302-315; 4, p. 203-270] [1, p. 245-288; 2, p. 332-345; 3, p. 178-186]</p> <p><b>Auxiliary literature:</b> [1, p. 385 -405]</p>

No n/o	The name of the topic of the lesson and a list of main questions
1	<p style="text-align: center;"><b>The market of perfect competition</b></p> <p><b>Key issues:</b></p> <ol style="list-style-type: none"> <li>1. Describe the market model of perfect competition and explain the differences between the market demand curve and the demand line in this market.</li> <li>2. Explain the difference between the market behavior of the enterprise in the short and long term development.</li> <li>3. Analyze the indicators of economic activity of the enterprise in this market.</li> <li>4. Determining the production of a competitive enterprise in the short and long term.</li> <li>5. Explain the essence of constructing the demand curve of the manufacturer.</li> </ol>
2	<p style="text-align: center;"><b>Competitive strategy of the enterprise in the short and long term</b></p> <p><b>Key issues:</b></p> <ol style="list-style-type: none"> <li>1. Conduct a cumulative and marginal cost analysis.</li> <li>2. Analyze the conditions for profit maximization in mathematical and graphical form.</li> <li>3. Explain the essence of the construction of the marginal cost curve as a supply curve.</li> <li>4. Analyze the choice of optimal output, maximize profits or minimize losses.</li> <li>5. Proposals of the company and the industry in the long run.</li> </ol>
3	<p style="text-align: center;"><b>Monopoly market</b></p> <p><b>Key issues:</b></p> <ol style="list-style-type: none"> <li>1. Describe the market structure and nature of the monopoly.</li> <li>2. Determining the volume of production and the price of the monopolist.</li> <li>3. Explain the essence of monopoly power.</li> <li>4. Explain the essence of price discrimination and analyze its consequences.</li> <li>5. Describe the social losses (losses) of monopoly power.</li> </ol>
4	<p style="text-align: center;"><b>Oligopoly and monopolistic competition</b></p> <p><b>Key issues:</b></p> <ol style="list-style-type: none"> <li>1. Describe the market of monopolistic competition and its properties. Evaluate the market and product strategy of the enterprise.</li> <li>2. Profits and losses of the enterprise in the short term. Break-even conditions in the long run.</li> <li>3. Explain the nature and strategy of oligopolistic firms.</li> </ol>
5	<p style="text-align: center;"><b>Labor market</b></p> <p><b>Key issues:</b></p> <ol style="list-style-type: none"> <li>1. Find out the features of demand and market supply for labor.</li> <li>2. Define the concept of marginal product of labor in monetary terms.</li> <li>3. Master the rule that determines the number of employees in conditions where work is one variable.</li> <li>4. Master the rule of profit maximization in conditions where all resources are variable.</li> </ol>

6	<p style="text-align: center;"><i>Capital and land resources market</i></p> <p><b><u>Key issues:</u></b></p> <ol style="list-style-type: none"> <li>1. Describe competitive markets for factors of production.</li> <li>2. Explain the balance in a particular market of factors of production.</li> <li>3. Explain the essence of capital and land markets.</li> <li>4. Identify the conditions of economic rent and find out the mechanism of rent formation.</li> <li>5. Pay attention to determining the price of land.</li> </ol>
7	<p style="text-align: center;"><b>General market equilibrium and economic efficiency</b> <b>Institutional aspects of market economy</b></p> <p><b><u>Key issues:</u></b></p> <ol style="list-style-type: none"> <li>1. Explain the concept of general market equilibrium.</li> <li>2. Describe the efficiency of the economy in the production sphere.</li> <li>3. Construction of the production capacity curve and the consumer indifference curve. Describe the criteria for assessing well-being. Allocation of resources.</li> <li>4. Formulate and explain the conditions of Pareto - the optimal state of the economy.</li> <li>5. Explain property rights and their structure.</li> <li>6. Describe private, municipal and state property. Give examples.</li> </ol>
8	<p style="text-align: center;"><b>Modular test work</b></p> <p><i>Carrying out of modular control work and revealing of a level of formation of knowledge and abilities from the credit module "Microeconomics 2".</i></p>
9	<p style="text-align: center;"><b>CONSIGNMENT</b></p> <p><i>The purpose of the test is to summarize and take the test.</i></p>

## 6. Independent work of a student / graduate student

There are no topics that are fully submitted for independent study to students without lectures and practical classes. Types of independent work of students: preparation for classroom classes, problem solving, preparation for testing based on lecture materials. Самостійна робота студента/аспіранта

## Policy and control

### 7. The policy of the discipline (educational component)

**Attending classes.** Attendance at lectures and practical classes is free, points for attending lectures and internships are not added, but a significant part of the student's rating is formed through active participation in practical classes, tasks, preparation of short reports. Therefore, skipping lectures and practical classes does not allow the student to get points to the semester rating.

**Control measures missed.** If the control measures are missed for good reasons (illness or serious life circumstances), the student is given the opportunity to make an additional control task in the near future.

*In case of violation of deadlines and failure to complete tasks for disrespectful reasons, a student who did not score 40 points during the semester is not allowed to take the test in the main session.*

***Rules for assigning incentive and penalty points.***

*For participation in faculty and institute Olympiads in academic disciplines, participation in competitions, preparation of reviews of scientific papers, participation in conferences on the discipline (publication of abstracts and reports) - up to 10 incentive points;*

*For preparation and publication of a scientific article on the disclosure of a professional problem from an economic point of view - 10 points;*

*For the development of situational exercises and tasks in the discipline, the implementation of tasks to improve didactic materials in the discipline - up to 5 points for each task.*

***Procedure for appealing the results of control measures.*** *Students have the opportunity to raise any issue related to the procedure of control measures and have the right to challenge the results of control*

measures, but it is necessary to argue, explaining which criterion they do not agree with according to the evaluation letter and / or comments.

**Academic integrity.** The policy and principles of academic integrity are defined in Section 3 of the Code of Honor of the National Technical University of Ukraine "Kyiv Polytechnic Institute named after Igor Sikorsky". Details: <https://kpi.ua/code>.

**Extracurricular activities.** Within the study of the discipline at the request of the student is expected to participate in conferences, forums, round tables and more.

## 8. Types of control and rating system for evaluation of learning outcomes (RSO)

The student's rating consists of points that he receives for: answers to practical classes, writing 4 test express tests; performance of modular control work; performance of independent work of the student.

### **Types of control:**

**Ongoing control:** solving problems in practice, test, preparation of short reports, MCR

**Practical training.** Students' performance in practical classes is assessed in accordance with the assessment scale (2-3-4-5 points).

- "excellent" - answers to basic and additional questions are complete, comprehensive, reasonable; the student answered theoretical questions and solved practical problems, worked actively throughout the lesson - 5 points;

- "good" - the answer to the main question is correct, the answers to additional questions with some inaccuracies; the student answered theoretical questions and solved practical problems, actively worked during the whole - 4 points;

- "satisfactory" - incomplete or inaccurate answers to basic and additional questions, the student worked during the lesson sporadically - 3 points;

- "enough" - the student worked during the lesson sporadically, solved practical problems - 2 points; the two best students can get an additional + 1 point.

**Test (express survey).** Evaluated by the following criteria:

- "excellent" - complete answer (at least 90% of the required information) - 5 points;

- "good" - a fairly complete answer (at least 75% of the required information) or a complete answer with minor inaccuracies - 4 points;

- "satisfactory" - incomplete answer (not less than 60% of the required information) and minor errors - 3 points;

- "unsatisfactory" - the answer does not meet the requirements for "satisfactory" - 0 points;

- in case of non-attendance at the control event - 0 points

**The student's independent work** is evaluated by the following criteria:

- "excellent" - the work submitted for review on time, in content and essence fully meets the task, correctly solved problems - 5 points;

- "good" - the work submitted for testing on time, in content and essence fully meets the task, there are inaccuracies in theoretical problems or calculation errors in problems - 4 points;

- "satisfactory" - the work is submitted for testing on time, in essence fully meets the task, the work contains the correct answers to theoretical problems and incomplete solution of the practical problem - 3 points;

- "Enough" - the work was submitted for testing on time, in essence, fully meets the task, the work has correct and complete answers only to theoretical problems - 2 points.

**Modular test** is evaluated in 15 points according to the following criteria:

- "excellent" - complete answer (not less than 90% of the required information) - 12.5..15 points;

- "good" - a fairly complete answer (at least 75% of the required information) or a complete answer with minor inaccuracies - 10.5..12 points;

- "satisfactory" - incomplete answer (not less than 60% of the required information) and minor errors - 7.5..9 points;

- "unsatisfactory" - the answer does not meet the requirements for "satisfactory" - 0..7 points.



- in case of non-attendance at the control event - 0 points.

**Calendar control:** conducted twice a semester in the form of certification as a monitoring of the current state of compliance with the requirements of the syllabus. The condition of the first certification is to obtain at least 20 points. The condition of the second certification is to receive at least 38 points.

**Conditions of admission to the semester control:** the sum of rating points received by the student during the semester is transferred to the final grade according to the table of correspondence of rating points. If the sum of points is less than 60, but more than 40 points, the student performs a test. In this case, the amount of points obtained for the test is transferred to the final score in accordance with the table of correspondence of rating points.

A student who received more than 60 points during the semester, but wants to improve his score, can take part in the test. In this case, the final result consists of the points obtained for the test.

**Semester control:** credit.

The amount of rating points received by the student during the semester is transferred to the final grade according to the table of correspondence of rating points. If the sum of points is less than 60, but more than 40 points, the student performs a test. In this case, the amount of points obtained for the test is transferred to the final score in accordance with the table of correspondence of rating points.

**The test is estimated** at 100 points. It consists of five questions. Each question is evaluated with 20 points according to the following criteria:

- "excellent" - complete answer (at least 90% of the required information), provided appropriate solutions and personal opinion - 20..18 points;
- "good" - a fairly complete answer (at least 75% of the required information), performed in accordance with the requirements for the level of "skills", or minor inaccuracies - 17..15 points;
- "satisfactory" - incomplete answer (not less than 60% of the required information), performed in accordance with the requirements for the "stereotypical" level and some errors - 14..12 points;
- "unsatisfactory" - the answer does not meet the requirements for "satisfactory" - 0..13 points.

Table of correspondence of rating points to grades on the university scale:

Scores	Rating
100-95	Perfectly
94-85	Very well
84-75	Okay
74-65	Satisfactorily
64-60	Enough
Less than 60	Unsatisfactorily
Admission conditions are not met	Not allowed

**Work program of the discipline (syllabus):**

**Compiled** by Art. Lecturer of the Department of Economics and Entrepreneurship, Boichuk N.

**Approved by the department** (minutes № 17 of 02.06.2021)

**Approved by** the Methodical Commission of the Faculty (Minutes № 10 of 15.06.2021)