



MINISTRY OF HEALTH OF UKRAINE  
NATIONAL UNIVERSITY OF PHARMACY  
Department of organization and economy of pharmacy

## BASICS OF ECONOMICS IN HEALTHCARE

(назва освітньої компоненти)

### EDUCATIONAL WORK PROGRAM of educational component

training for second (master's) degree

(Higher Educational Level Name)

in specialty « 226 Pharmacy, industrial pharmacy »

(Code and Specialty Name)

field of knowledge 22 Healthcare

(Code and Knowledge Field Name)

of educational program Pharmacy

(Educational Program Name)

in specialization(s) \_\_\_\_\_

(name of specialization, if available)

**Kharkiv-2023**

(Year of creation)

CONSIDERED AND APPROVED: National University of Pharmacy of the Ministry of Health of Ukraine

EDUCATIONAL COURSE TEAM

NEMCHENKO Alla, Professor of the Department of Organisation and Economics of Pharmacy, Doctor of Pharmacy, Professor,  
Demchenko N.V., Professor Assistant of the Department of Organisation and Economics of Pharmacy, PHD in Economics science

Educational program has been considered and approved at the Department meeting

---

Signed on «04» September 2023 № 2

a.i. head of the department



prof. Hanna Panfilova \_\_\_\_\_

Educational program has been approved at the meeting of the Methodical Commission of economic, managerial, social and humanitarian disciplines

Signed on «5» September 2023 № 1

Head of Specialized Committee



\_\_\_\_\_ prof. Alla NEMCHENKO

## 1. Опис освітньої компоненти

**The educational component study program "Basics of Economics in Healthcare"** compiled in accordance with the Standard of Higher Education of Ukraine (hereinafter referred to as the Standard) / Educational (educational-professional, educational-scientific) program of the second level of higher education

field of knowledge 22 Health care specialty

226 Pharmacy, industrial pharmacy of educational program "Pharmacy"

**Description of the educational component** (abstract) Healthcare is one of the most important sectors of our economy, and the demand for professionals in health economics and healthcare management is growing significantly. This is an introductory course covering theory of health economics as applied to the analysis of the organization and financing of health and healthcare services.

The educational component "Basics of Economics in Healthcare" is the basis for further study of the organization and economy of pharmacy, pharmaceutical marketing and management, social economy, pharmacoeconomics, which involves the integration of teaching with the above-mentioned disciplines for the formation of skills to apply knowledge in the process of further education and professional activity. The advantages of studying the discipline are students' acquisition of market-economic thinking, clarification of the role of economic theory in the formation of economic policy and economic regulation, assimilation of the methodology of economic research to understand the market transformations taking place in the national economy and the pharmaceutical industry. The specialty of the discipline is its dynamism in view of changes in the socio-economic and political situation in the country, market conditions, changes in legislation, etc.

**Interdisciplinary connections:** "Basics of Economics in Healthcare" is based on the study of the basic disciplines of the humanitarian, socio-economic and natural-scientific directions, in particular such as: history of Ukraine and Ukrainian culture, philosophy, higher mathematics and statistics, information technologies in pharmacy. It is the basis for further study of the organization and economy of pharmacy, pharmaceutical marketing and management, social economy, pharmacoeconomics, which involves the integration of teaching with the above-mentioned disciplines for the formation of skills to apply knowledge in the process of further education and in professional activities.

**1. The purpose and objectives** of the educational component "Basics of Economics in Healthcare"

1.1. The purpose of studying the educational component "Basics of Economics in Healthcare" is the formation of students of higher education in-depth economic knowledge, the logic of modern economic thinking and economic culture, training in basic methods of analyzing economic processes in the pharmaceutical industry, the ability to make informed decisions about economic problems related to their future professional activities.

1.2. The subject of the study of the educational component "Basics of Economics in Healthcare" is basic economic laws and forms of organization of economic activity, economic relations that objectively arise in the pharmaceutical industry and are related to the production, distribution, exchange and consumption of pharmaceutical goods and services, optimization problems pharmaceutical production in conditions of limited resources.

1.3 **Competencies** and program learning outcomes, the formation of which is facilitated by the educational component (relationship with the normative content of the training of higher education applicants, formulated in terms of learning outcomes in the Standard/educational program).

According to the requirements of the standard/educational program, the educational component ensures the acquisition of applicants for higher education **competences**:

integral:

*Ability to solve typical and complex specialized tasks and practical problems in the professional pharmaceutical activity of Healthcare on a socially-oriented basis or in the process of*

*training, which involves conducting chemical, biopharmaceutical, biomedical, sociological, etc. research and / or implementation of innovations and is characterized by uncertainty of conditions and requirements; integrate knowledge, critically comprehend and solve complex issues, make decisions in complex unpredictable conditions, formulate judgments in the presence of incomplete or limited information, taking into account aspects of social and ethical responsibility; clearly and unambiguously to convey their conclusions and use their knowledge, reasonably substantiating them, to professional and nonprofessional audience.*

general

*GC 2. Ability to apply knowledge in practical situations, make reasonable decisions*

*GC 4. Ability to abstract thinking, analysis and synthesis, to learn and be modernly trained.*

*GC 6. Knowledge and understanding of the subject area and understanding of professional activity.*

*GC 12. Ability to conduct research at the appropriate level.*

special (professional):

*PC 4. Ability to ensure the rational use of prescription and over-the-counter medications and other pharmaceutical products in accordance with physicochemical, pharmacological characteristics, biochemical, pathophysiological features of a particular disease and pharmacotherapeutic regimens for its treatment.*

*PC 5. Ability to monitor the effectiveness and safety of the population of medications according to the data on their clinical and pharmaceutical characteristics, as well as taking into account subjective signs and objective clinical, laboratory and instrumental criteria for the examination of a patient.*

*PC 11. Ability to analyze socio-economic processes in Pharmacy, forms, methods and functions of the pharmaceutical supply system and its components in world practice, indicators of need, efficiency and availability of pharmaceutical care in terms of health insurance and reimbursement of the cost of medications.*

Integrative final program learning outcomes (PLO), the formation of which is facilitated by the educational component:

*PLO 1. To carry out professional activities in social interaction based in humanistic and ethical principles; to identify future professional activities as socially significant for human health.*

*PLO 2. To apply knowledge of general and professional disciplines in professional activities.*

*PLO 4. To demonstrate the ability to independently search, analyze and synthesize information from various sources and use these results to solve typical and complex specialized tasks of professional activity.*

*PLO 23. To take into account the data on socio-economic processes in society for the pharmaceutical provision of the population, determine the effectiveness and availability of pharmaceutical care in terms of health insurance and reimbursement of the cost of medicines.*

As a result of studying the educational component, the applicant for higher education will be know:

- object, subject, functions of the economy, basic concepts of economic theory;
- methods of researching economic processes;
- the main types of economic needs and the place of health care needs in the hierarchy of human needs;
- concepts of goods and services, their specificity and features in pharmacy
- concept of economic system, main models of modern economic systems;
- functions of the state in the market economy, peculiarities of regulation of the pharmaceutical industry;
- the essence of the state budget, the formation of state budget revenues and expenses, sources of health care financing;
- the economic essence and mechanism of formation of taxes and fees, their types and rates, taxation in the pharmaceutical industry;
- the essence of the concepts labor resources, labor force, unemployment and employment, features of the labor market and specifics of demand for pharmaceutical and medical professions;

- remuneration systems, motivation, social protection and ethics in the pharmaceutical industry
- international relations and globalization, development of the world pharmaceutical market and its features

be able to:

- analyze economic phenomena and processes of a general nature that occur at all levels of the economy and in the field of health care;
- determine the economic aspects of health care system problems;
- to navigate in choosing an effective management solution; acquire primary skills of rational economic behavior;
- determine priorities for solving economic problems of the health care system;
- apply economic categories in the process of comparing alternative healthcare systems;
- analyze and evaluate the economic aspects of the activities of organizations, enterprises, health care institutions and their regulation at the macro and micro levels;
- use the acquired knowledge of the basics of economics in their professional activities;
- to argue one's own position during the discussion of economic problems.

## **2. Information content of the educational component.**

3 ECTS credit 90 hours are assigned to the study of the educational component.

**Content module 1:** General fundamentals of economics. Market economy.

**Topic 1:** The economic basis of Healthcare, its tasks and features in the conditions of a market economy

**Topic 2:** Public Health and Human's needs in Society

**Topic 3:** Health Economic care - Putting a price tag on health

**Topic 4:** Social Market and Health care Market

**Content module 2.** Macroeconomics and microeconomics, the pharmaceutical industry in the conditions of economic globalization

**Topic 5:** Healthcare Financing, its tasks and features in the conditions of a market economy

**Topic 6:** Government and its role in Healthcare

**Topic 7:** International cooperation in Healthcare, global pharmaceutical market

## **3. The form of semester supervision of study progress**

Semester supervision is carried out in the form of a semester credit

**4. Methodological support** (educational content (lecture notes), plans for practical (seminar) classes, tasks for laboratory works, independent work, questions, problems, assignments or cases for current and semester control of knowledge and skills of higher education students, complex control work with educational component, etc.).

1. Study guide
2. Methodological materials for computer presentations of lectures.
3. Methodological recommendations for practical classes and independent work of students.
4. List of theoretical questions for the final module control.
5. Test tasks.
6. Tickets for the control of content modules.

## **5. Reading suggestions**

### **6. The main reading suggestions**

1. Daniel Jackson Healthcare Economics Made Easy, third edition. - 2021. – 300 p.
2. Charles E. Phelps Health Economics. 6th Edition. - 2017. - 422 p.
3. Economics of Health and Medical Care/ Lanis Hicks. 7-edition. 2021. - 374 p.
4. Handbook on Teaching Health Economics. Best Practices/ Edited by Maia Platt, Associate Professor of Health Services Administration, College of Health Professions, University of Detroit Mercy, Detroit, Michigan and Allen C. Goodman, Professor of Economics, College of Liberal Arts

and Sciences, Wayne State University, Detroit, Michigan, US. 2021. – 320 p.

### **Supplementary reading suggestions**

1. Michael Goodween Economix: How Our Economy Works (and Doesn't Work), in Words and Pictures. – 2021. – 312 p.
2. Takagi D1, Kondo N2, Takada M3, Hashimoto H2 Educational attainment, time preference, and health-related behaviors: A mediation analysis from the J-SHINE survey. Soc Sci Med. 2016 Mar;153:116-22. doi: 10.1016/j.socscimed.2016.01.054. Epub 2016 Feb 18.
3. LEONARD M. FLECK, Controlling Healthcare Costs: Just Cost Effectiveness or “Just” Cost Effectiveness?, Access Volume 27, Issue 2 April 2018 , pp. 271-283
4. Cookson R. et.al., Using Cost-Effectiveness Analysis to Address Health Equity Concerns. Value Health. 2017 Feb;20(2):206-212.

### **7. Electronic resources, including the Internet**

1. National list of OLD and VMP (MoH of Ukraine). [http://www.moz.gov.ua/ua/portal/register\\_naclist/](http://www.moz.gov.ua/ua/portal/register_naclist/)
2. Register of wholesale and retail prices for drugs [http://www.moz.gov.ua/ua/portal/register\\_prices\\_drugs/](http://www.moz.gov.ua/ua/portal/register_prices_drugs/)
3. Lecture materials, methodological developments for seminar classes and independent work at the Faculty of Economics and Business Administration: Access mode: <http://economica.nuph.edu.ua>.
4. Scientific library of the National Academy of Sciences: Access mode: <http://dspace.ukrfa.kharkov.ua>; <http://lib.nuph.edu.ua>.
5. World Health Organization (WHO) - <http://www.who.int/ru/>
6. Ministry of Health of Ukraine - <http://www.moz.gov.ua/ua/portal/>
7. Ministry of Economy of Ukraine - <http://www.me.gov.ua/>