

**SYLLABUS OF THE EDUCATIONAL COMPONENT  
BASICS OF ECONOMICS IN HEALTHCARE**

Second (masters) level of higher education educational program "Pharmacy" specialty 226  
Pharmacy, industrial pharmacy

**TEACHER**



**Demchenko Natalia**

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- 1. Name of higher education institution and unit:** National Pharmaceutical University, Department of Pharmacy Organization and Economics
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**4. Information about teachers:**

*Nataliya Volodymyrivna DEMCHENKO - candidate of economic sciences, associate professor of the Organization and Economics of Pharmacy Department of the National University of Pharmacy. Experience of scientific and pedagogical activity - 18 years. Scientific interests: Economics, Management, Global economy, Finance of Healthcare, Economy of pharmacies.*

**5. Consultations:** Consultations are held on the ZOOM platform according to the schedule Tuesday from 12.00 to 13.00

**6. Abstract of the educational component:**

*The educational component "Basics in 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.*

**7. The purpose of teaching the educational component:** *to form in students of higher education 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.*

**8. Competencies according to the educational program:**

**Soft-skills / General competences:**

*TC 4. Ability to think abstractly, analyze and synthesize, learn and be modernly trained.*

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

**Hard-skills / Professional (special) competences (PC):**

*PC 9. The ability to analyze and forecast the main economic indicators of the activity of pharmacies, to calculate the main taxes and fees, to form prices for medicines and medical products in accordance with the current legislation of Ukraine.*

*PC 11. The ability to conduct an analysis of socio-economic processes in pharmacy, forms, methods*

and functions of the system of pharmaceutical provision of the population and its components in global practice, indicators of the need, effectiveness and availability of pharmaceutical care in terms of medical insurance and reimbursement of the cost of medicines.

**9. Program learning outcomes (PL):**

PL 20. To carry out a complex of organizational and management measures to provide the population and health care institutions with medicines and other products of the pharmacy assortment. Carry out all types of accounting in pharmacies, administrative records, product analysis processes.

PL 23. To take into account data on socio-economic processes in society for the pharmaceutical supply of the population, to determine the effectiveness and availability of pharmaceutical care in terms of medical insurance and reimbursement of the cost of drugs.

**10. Status of educational component:** optional

**11. Prerequisites of the educational component:** in order to successfully study and master the competencies from this educational component, the student of higher education needs knowledge, skills and abilities in the history of Ukraine, philosophy, higher mathematics and statistics, pharmacoeconomics.

**12. The scope of the educational component:** 3 ECTS credits; number of hours per educational component – 90: 4 hours of lectures, 8 hours of practical classes, 78 hours of independent work.

**13. Training organization:**

**Teaching format of the educational component:**

**Content of the educational component:**

**Content module 1. General basics of economics. Market economy.**

**Topic 1. The economic basis of health care, its tasks and features in the conditions of a market economy.**

Object, subject, functions of the economy. Healthcare economics as a branch of science and practice. The place of health care economics in the structure of economic science. Prerequisites for the emergence of health care economics as a new scientific discipline. Historical aspect, problems and modernity. The essence and main types of economic needs. Maslow's pyramid. Economic benefits and their classification. Health as an economic category. Economic interests and their interaction. Types of production resources. The essence and structure of social production. Forms of organization of social production. Factors of production: land, labor, capital, entrepreneurial ability. Economic problems of health care development. Health care market situation.

**Topic 2. Economic systems and their levels. Development of the pharmaceutical industry in conditions of mixed national systems.**

Concepts and components of the economic system. Types of economic system. Classification of economic systems. Formative and civilizational approaches in economic research. Basic models of modern economic systems. National features of the development of economic systems.

Examples of the functioning of these systems in countries with high, medium and low levels of economic development.

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

**Topic 3. State budget: revenues and expenditures. The tax system. Health care financing.**

Financial system of the state. The state budget as the main link of the financial system of the state. The main sources of the revenue part of the budget. The main directions of budget expenditures. Health care financing. Taxes as an economic category, their types and essence. Budget and tax policy and its features. The role of the state and the prerequisites for its intervention in the field of health care. The current state, problems and prospects for the development of the modern health care system of Ukraine. Reforming the health care industry. The main sources of health care financing.

**Topic 4. Labor and its essence in economic relations. Labor market, employment and unemployment.**

Labor force as a commodity, labor market. Main types and sources of income. Unemployment and employment. Reasons for the existence of unemployment. Types of unemployment. Definition of "full employment". Determining the level of unemployment. The optimal level of unemployment. Economic losses

from unemployment. Social consequences of unemployment. Income inequality and social inequality. Peculiarities of the labor market in Ukraine, demand and supply for health care professions.

**Topic 5. Wages and payment systems, motivation. Management of labor resources in health care.**

The system of income distribution in the conditions of a market economy. Main types of income. The essence of wages as a commodity is labor power. Factors affecting the level of wages. Minimum wage. Consumer basket and living wage. Nominal salary. Real wages. The general level of wages. Differentiation of wage rates. State policy in the field of wages.

**Topic 6. Global economy and international relations. World pharmaceutical market.**

The essence of the world economic system, its origin and development. The main features and trends in the development of the world economy. The main forms of global economic relations. Internationalization of economic life. Integration processes at the current stage. Economic interaction of national economies at the world level. Globalization of the modern economy. Impact of activities of transnational companies on world economic development. Peculiarities of the functioning of individual supranational structures. World pharmaceutical market. Ukraine in international rankings.

**15. Evaluation system for the educational component:**

**The evaluation system for the educational component:**

The results of semester control in the form of a semester credit are evaluated on a 100-point, undifferentiated scale ("passed", "failed") and on the ECTS scale.

The results of semester control in the form of a semester exam are evaluated on the ECTS scale, a 100-point scale and a four-point scale ("excellent", "good", "satisfactory", "unsatisfactory").

Points from the educational component are calculated according to the following ratio:

Types of assessment	Maximum number of points (% of the number of points per module - for content modules)
<i>Модуль 1</i>	
<i>Content module 1: General basics of economics. Market economy. evaluation of topics (1-2) (work in classes 1-2): work in classes (oral survey, writing test tasks, solving situational (calculation) problems); control of content module 2 (writing test tasks, solving situational (calculation) problems)</i>	34 (40 %)
<i>Content module 2: Macroeconomics and microeconomics, the pharmaceutical industry in the context of economic globalization - evaluation of topics (3-6) (work in classes 3-6): work in classes (oral survey, writing test tasks, solving situational (calculation) problems); - control of content module 2 (writing test tasks, solving situational (calculation) problems)</i>	51 (60 %)

**The independent work of students of higher education is evaluated during the current control and during the control of the content module**

**16. The policy of the educational component:**

Academic Integrity Policy. It is based on the principles of academic integrity stated in the POL "On measures to prevent cases of academic plagiarism at the National University of Ukraine". Write-offs when evaluating the success of a student of higher education during control activities in practical classes, control of content modules, and semester exams are prohibited. The detection of signs of academic dishonesty in the student's written work is a reason for the teacher not to enroll it.

Class attendance policy. A student of higher education is obliged to attend classes (POL "On the organization of the educational process of the National Academy of Sciences of Ukraine") according to the schedule (<https://nuph.edu.ua/rozklad-zanyat/>), to observe ethical norms of behavior.

Policy regarding deadlines, working out, rating increase, liquidation of academic debt. The completion of missed classes by a student of higher education is carried out in accordance with the POL "Regulations on the completion of missed classes by students and the procedure for eliminating academic differences in the curricula of the National Academy of Sciences" in accordance with the schedule for making up missed classes established by the department. The rating increase and liquidation of academic debt from the educational component is carried out in accordance with the procedure given in the POL "On the procedure for evaluating the results of training of students of higher education at the National Academy of Sciences". Applicants of higher education are obliged to comply with all deadlines set by the department for the completion of written works from the educational component. Works that are submitted late without valid reasons are assessed at a lower grade - up to 20% of the maximum number of points for this type of work. Policy on appeals of assessment from the educational component (appeals). Applicants of higher education have the right to contest (appeal) the evaluation of the educational component obtained during control measures. The appeal is carried out in accordance with the POL "Regulations on appealing the results of the semester control of the knowledge of students of higher education at the National Academy of Sciences".

**17. Informational and educational and methodological support of the discipline:**

<p><b>Required reading</b></p>	<p>1. Orhanizatsiia ta ekonomika farmatsii. Ch. 1. Orhanizatsiia farmatsevychnoho zabezpechennia naseleennia : nats. pidruch. dlia stud. vyshch. navch. zakl. / A. S. Nemchenko, V. M. Nazarkina, H. L. Panfilova ta in.; za red. A. S. Nemchenko. – Kh. : NFaU : Zoloti storinky, 2015. – 360 s.</p> <p>2. Orhanizatsiia ta ekonomika farmatsii. Ch. 2. Cystemy obliku v farmatsii : nats. pidruch. dlia stud. vyshch. navch. zakl. / A. S. Nemchenko, V. M. Nazarkina, O. P. Hudzenko ta in.; za red. A. S. Nemchenko. – Kh. : NFaU : Zoloti storinky, 2016. – 416 s.</p> <p>3. Orhanizatsiia ta ekonomika farmatsii. Ch. 3. Osnovy ekonomiky farmatsii : nats. pidruch. dlia stud. vyshch. navch. zakl. / A. S. Nemchenko, H. L. Panfilova, V. M. Nazarkina ta in.; za red. A. S. Nemchenko. – Kh. : NFaU : Zoloti storinky, 2016. – 272 s.</p> <p>4. Orhanizatsiia ta ekonomika okhorony zdorovia: Navchalnyi posibnyk /Holovanova I.A., Bielikova I.V., Liakhova N.O. Poltava. 2021. -256 s..</p>
<p><b>Additional literature for in-depth study of the educational component</b></p>	<p>1. Ekonomichna teoriia : pidruchnyk / V.D. Lahutin, Yu.M. Umantsiv, T.A. Shcherbakova ta in. ; za zah. red. V.D. Lahutina. Kyiv : Kyiv. nats. torh.- ekon. un-t, 2017. 608 s.</p> <p>2. Urazov A. U. Osnovy ekonomichnoi teorii. / A. U. Urazov., I. V. Vikarchuk . K. : Tsentr navchalnoi literatury, 2019. 312 s.</p> <p>3. Zakhozhai K.V. Pryntsypy pobudovy Derzhavnogo biudzhetu Ukrainy: protsesno-systemnyi pidkhiid. // Problemy ekonomiky – 2017. - № 3. – S.47-54.</p> <p>4. Bilynska, M. M. Polityka ta upravlinnia v sektori ekonomiky ta finansuvannia systemy okhorony zdorovia v Ukraini: navchalnyi posibnyk / M. M. Bilynska, N. O. Vasiuk, S. H. Boiko; Nats. akad. derzh. upr. pry Prezydentovi Ukrainy, kaf. sots. i humanitar. polityky. - K.: NADU, 2017. - 106 s.</p> <p>5. Mify pro okhoronu zdorovia. Yak ne pomylitysia, reformuiuchy medychnu systemu / Henri Mintsberg. - Kyiv : Nash format, 2019. - 230 s.</p> <p>6. Drahunov, D. M. Finansovi instrumenty stratehichnogo rozvytku sfery okhorony zdorovia v umovakh tsyfrovoy ekonomiky : dys. ... d-ra filosofii : 072 / D. M. Drahunov. - Chernihiv, 2021. - 272 s.</p> <p>7. Bernd Rechel, Anna Maresso, Anna Sagan. Organization and financing of public health services in Europe. Country reports. European Observatory on Health Systems and Policies, 2018; 148.</p>
<p><b>Current electronic information resources (magazines, websites) for in-</b></p>	<p>1. Zakonodavstvo Ukrainy - <a href="http://zakon.rada.gov.ua/">http://zakon.rada.gov.ua/</a></p> <p>2. Informatsiina systema „Kompendium” - <a href="http://compendium.com.ua/">http://compendium.com.ua/</a></p> <p>3. Informatsiina systema „Likarski zasoby” (Morion). <a href="http://pharmbase.com.ua/">http://pharmbase.com.ua/</a></p>

<b>depth study of the educational component</b>	<p>4. <i>Informatsiino-poshukova systema «Elektronnyi formular»</i>  <a href="http://www.dec.gov.ua/index.php?option=com_content&amp;view=article&amp;id=301&amp;Itemid=622&amp;lang=uk">http://www.dec.gov.ua/index.php?option=com_content&amp;view=article&amp;id=301&amp;Itemid=622&amp;lang=uk</a></p> <p>4. <i>Derzhavnyi reiestr LZ (Ekspertnyi tsentr LZ)</i> <a href="http://www.drlz.kiev.ua/">http://www.drlz.kiev.ua/</a></p> <p>5. <i>Dovidnyk likarskykh zasobiv</i> <a href="http://www.drlz.kiev.ua/">http://www.drlz.kiev.ua/</a></p> <p>6. <i>Derzhavnyi reiestr medychnoi tekhniky ta VMP</i>  <a href="http://portal.diklz.gov.ua/PublicSite/PUB/VMList.aspx">http://portal.diklz.gov.ua/PublicSite/PUB/VMList.aspx</a></p> <p>7. <i>Natsionalnyi perelik OLZ ta VMP (MOZ Ukrainy).</i>  <a href="http://www.moz.gov.ua/ua/portal/register_naclist/">http://www.moz.gov.ua/ua/portal/register_naclist/</a></p> <p>8. <i>Reiestr mistv zdiisnennia diialnosti z optovoi ta rozdribnoi torhivli LZ (Derzhliksluzhba)</i>  <a href="http://portal.diklz.gov.ua/PublicSite/TradeLicense/TradeLicenseList.aspx">http://portal.diklz.gov.ua/PublicSite/TradeLicense/TradeLicenseList.aspx</a></p> <p>9. <i>Reiestr optovo-vidpusknykh tsin na LZ</i>  <a href="http://www.moz.gov.ua/ua/portal/register_prices_drugs/">http://www.moz.gov.ua/ua/portal/register_prices_drugs/</a></p> <p>10. <i>Derzh. reiestr kharchovykh produktiv spetsialnoho diietychnoho spozhyvannia, funktsionalnykh kharchovykh produktiv ta diietychnykh dobavok</i>  <a href="http://www.moz.gov.ua/ua/portal/register_foodstuffanddietary/">http://www.moz.gov.ua/ua/portal/register_foodstuffanddietary/</a></p> <p><b>Repozytarii NFaU</b> <a href="https://dspace.nuph.edu.ua/">https://dspace.nuph.edu.ua/</a></p>
<b>Distance learning system Moodle</b>	<p><i>Fundamentals of economics in health protection</i>  <a href="https://pharmel.kharkiv.edu/moodle/course/view.php?id=4320#section-0">https://pharmel.kharkiv.edu/moodle/course/view.php?id=4320#section-0</a></p>

**18. Technical and software support of the educational component:** *personal computer (laptop), Zoom, Moodle, information and search systems*