



COURSE SYLLABUS

Academic discipline for Master's degree training:
ORGANIZATION AND ECONOMY OF PHARMACY

Specialty	226 Pharmacy, Industrial Pharmacy
Educational Programme	EPP “Pharmacy” (2023)
Higher Education Level	Second (Master's)
Academic Year	2026-2027
Status of the Discipline	Mandatory
Language of Instruction	Ukrainian / English
Total Workload	(6,0 of ECTS credits)
Year of Study / Semester	IV / 4 (full-time) V / 9-10 (part-time)
Developer	O. Kohut, Associate Professor, Candidate of Pharmaceutical Sciences
Instructor(s), Guest Lecturers	O. Kohut, Associate Professor, Candidate of Pharmaceutical Sciences; O. Blahun, sup. teacher
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1. DESCRIPTION OF THE ACADEMIC DISCIPLINE

ABSTRACT

Brief course overview and relevance. The academic discipline "Organization and Economy of Pharmacy" belongs to the cycle of professional training courses for specialists in the field of study 226 "Pharmacy, Industrial Pharmacy," with the specialization 226.01 "Pharmacy."

The subject matter of this academic discipline encompasses the organizational and economic aspects of pharmaceutical activity within the context of the modern pharmaceutical market. It covers the provision of pharmaceuticals to the population of Ukraine, the organization of pharmacy operations, the state system for ensuring the quality of medicinal products and medical devices, and the regulatory and legal framework governing pharmaceutical activity. Within the overall system of pharmacist training, the organization and economics of pharmacy serve as a core specialized discipline. The primary objective of this course is to facilitate the development of essential professional knowledge—tailored to pharmaceutical practice—as well as the skills and competencies defined by the educational and qualification standards. Furthermore, it aims to provide a theoretical foundation for the subsequent study of other pharmaceutical and economic disciplines.

Prerequisites for the Educational Component.

This course requires the following curriculum subjects as prerequisites:

Introduction to Pharmacy – a course that examines the patterns of development and the history of medical and pharmaceutical knowledge throughout human history, from ancient times to the present day.

Information Technologies in Pharmacy – a course that covers the latest information technologies and modern software applications within the field of pharmacy.

Drug Technology – a course that studies the theoretical foundations and production processes involved in transforming medicinal substances into finished medicinal products (medicines) by formulating them into specific dosage forms, based on established physical, chemical, mechanical, and other principles.

Introductory Internship in Pharmacy Organization and Economics – the objective of this internship is to familiarize the student with the legal status and organizational structure of a pharmacy; the layout, equipment, and furnishing of pharmacy premises; the key stages of the circulation of medicinal products within a pharmacy; the specific workstations, staff positions, and their respective functional duties; as well as the requirements regarding the sanitary regimen of the pharmacy and the personal hygiene of the staff.

PURPOSE AND OBJECTIVES

The objective of the course "Organization and Economics of Pharmacy" is for higher education students to master the theoretical foundations and practical skills related to the organizational and economic aspects of pharmaceutical activity in the modern environment. It also involves developing professional competencies in the organization of pharmacy operations, the core principles of providing pharmaceutical care to the population, accounting and reporting systems in pharmacy establishments, the legal and regulatory framework governing pharmaceutical activity, logistics and product storage, the dispensing of medicines, economic analysis and pricing, quality control, and state oversight.

Studying "Organization and Economics of Pharmacy" is of fundamental importance to students, as it fosters key professional competencies—such as the management of pharmacy establishments, economic literacy within the pharmaceutical sector, understanding of legal regulations and pharmaceutical legislation, and the assurance of quality and safety in pharmaceutical care—thereby enhancing the graduate's competitiveness.

Post-requisites for the Educational Component.

- ☐ *integrated*: the ability to solve tasks and to comprehend and address practical problems of a research and/or innovative nature in the field of pharmacy.

- *general*:

- GC 02. Ability for abstract thinking, analysis, and synthesis.
- GC 03. Knowledge and understanding of the subject area and professional activity.

- GC 04. Ability to adapt and act in new situations; ability to show initiative.
- GC 05. Ability to communicate in the state language (both orally and in writing) and in a foreign language (primarily English) at a level sufficient for effective professional activity.
- GC 06. Skills in using information and communication technologies.
- GC 10. Ability to exercise one's rights and responsibilities as a member of society; awareness of the values of a free, democratic society and the necessity for its sustainable development, the rule of law, and the human and civil rights and freedoms in Ukraine.

- □ *specialised (professional, subject-specific) competences (PC):*

SC 01. Ability to collect, interpret, and apply data necessary for professional activities, conducting research, and implementing innovative projects in the field of pharmacy. SC 02. Ability to integrate knowledge and solve complex pharmaceutical problems within broad or multidisciplinary contexts.

SC 04. Ability to apply knowledge of Ukrainian regulatory and legislative acts, as well as guidelines on Good Pharmaceutical Practices, in professional activities. SC 05. Ability to demonstrate and apply communication skills, along with fundamental principles of pharmaceutical ethics and deontology—grounded in moral obligations, values, ethical standards of professional conduct, and responsibility—in accordance with the Code of Ethics for Pharmaceutical Professionals of Ukraine and WHO guidelines.

SC 07. Ability to conduct health education among the general public aimed at preventing common diseases, as well as dangerous infectious, viral, and parasitic diseases; and to promote the timely detection of and adherence to treatment for these conditions, taking into account their biomedical characteristics and microbiological features.

SC 08. Ability to provide pre-medical aid to patients and injured persons in extreme situations and emergency medical conditions.

PC 09. Ability to provide consultation regarding prescription and non-prescription medicinal products and other pharmacy-assortment goods, as well as aspects of healthy nutrition; ability to provide pharmaceutical care during the selection and dispensing of medicinal products of natural and synthetic origin by evaluating the risk-benefit ratio and compatibility, taking into account their biopharmaceutical, pharmacokinetic, pharmacodynamic, and physicochemical/chemical characteristics, as well as indications/contraindications for use, based on the health status of the individual patient.

PC 10. Ability to monitor the efficacy and safety of medicinal products used by the population, based on data regarding their clinical and pharmaceutical characteristics.

PC 11. Ability to ensure the proper storage of medicinal products and other pharmacy-assortment goods in healthcare facilities, in accordance with their physicochemical properties and the rules of Good Storage Practice (GSP).

PC 12. Ability to organize the operations of pharmacy establishments to supply the population and healthcare facilities with medicinal products and other pharmacy-assortment goods; to implement relevant reporting and accounting systems (managerial, statistical, bookkeeping, and financial) in compliance with the National Medicines Policy and Good Pharmacy Practice (GPP); and to conduct commodity analysis and administrative record-keeping in accordance with the organizational and legal norms of pharmaceutical legislation. PC 13. Ability to analyze socio-economic processes in pharmacy; the forms, methods, and functions of the pharmaceutical supply system for the population and its components within a global context; and indicators of need, efficiency, and accessibility of pharmaceutical care in the context of health insurance and the reimbursement of the cost of medicinal products.

PC 14. Ability to analyze and forecast key economic indicators of pharmacy operations, calculate major taxes and levies, and determine prices for medicinal products and medical devices in accordance with the current legislation of Ukraine.

PC 18. Ability to organize and carry out the compounding (production) activities of pharmacies—preparing medicinal products in various dosage forms based on physicians' prescriptions and orders from healthcare institutions—including justifying the technology used and selecting excipients in compliance with Good Pharmacy Practice (GPP) standards.

PC 22. Ability to organize and perform quality control of medicinal products in accordance with the requirements of the current State Pharmacopoeia of Ukraine and relevant pharmaceutical

practices; determine sampling methods for the control of medicinal products; conduct their standardization in compliance with current requirements; and prevent the distribution of falsified medicinal products.

Post-requisites (*How will this be useful in your future studies and professional career?*)

This discipline serves as a foundation for the study of subjects such as "Pharmaceutical Management and Marketing" and "Pharmaceutical Law and Legislation," as well as elective courses including "State Regulation and Control in Pharmacy" and "Modern Programs for Providing the Population with Medicinal Products." It also underpins practical training in the Organization and Economics of Pharmacy (OEP) and quality systems within the pharmaceutical sector. Topics related to the Organization and Economics of Pharmacy are integrated with the course on Drug Technology—specifically Applied Drug Technology (ADT)—as well as pharmaceutical and medical commodity science, and pharmacoeconomics. The educational process involves integrating instruction with the aforementioned disciplines, while fostering the ability to apply acquired knowledge during further studies and in professional practice.

2. LEARNING OUTCOMES

PLO 1. Apply specialized knowledge and skills from general and professional disciplines in professional practice.

PLO 2. Critically analyze scientific and applied issues in the field of pharmacy.

PLO 3. Evaluate and ensure quality and effectiveness in professional practice within the pharmaceutical sector.

PLO 4. Adhere to sanitary-hygienic standards and safety requirements while performing professional duties.

PLO 5. Plan and execute professional activities in compliance with the regulatory and professional acts of Ukraine, as well as the legal regulations and recommendations of Good Pharmaceutical Practices.

PLO 8. Develop and make effective decisions to address complex pharmaceutical challenges—both independently and through collaborative discussion—define goals for one's own work and that of the team (balancing personal and public interests, the overall strategy, and existing constraints), and determine the optimal paths to achieve these goals.

PLO 10. Conduct health education and awareness-raising activities during outbreaks of infectious, viral, or parasitic diseases.

PLO 11. Provide pre-medical aid to patients in urgent medical conditions and to individuals affected by emergency situations.

PLO 12. Contribute to health preservation, specifically through disease prevention and the rational prescribing and use of medicinal products. PLO 13. Predict and determine the impact of environmental factors on the quality and consumer characteristics of medicinal products of natural and synthetic origin, as well as other items within the pharmacy product range.

PLO 14. Determine the advantages and disadvantages of medicinal products from various pharmacological groups, taking into account their chemical, physicochemical, biopharmaceutical, pharmacokinetic, and pharmacodynamic characteristics.

PLO 15. Formulate, substantiate, and clearly and specifically communicate information—based on one's own knowledge and professional experience, as well as key development trends in global pharmacy and related fields—to both professionals and non-professionals, including higher education students.

PLO 17. Implement appropriate organizational and managerial measures to ensure the supply of the population and healthcare institutions; carry out all types of reporting and record-keeping, administrative documentation, and commodity analysis.

PLO 19. Calculate key economic indicators of pharmacy operations, as well as taxes and levies. Determine various types of prices (wholesale, purchase, and retail) for medicinal products and related goods.

PLO 20. Manage pharmaceutical organizations and evaluate their effectiveness by applying management functions. Make managerial decisions regarding the strategic planning of enterprise

operations, drawing upon the leadership and communication skills developed by pharmaceutical personnel.

PLO 21. Consider data on socio-economic processes within society to ensure the provision of pharmaceuticals to the population; assess the effectiveness and accessibility of pharmaceutical care within the context of health insurance and drug reimbursement schemes.

3. FORMS OF ORGANISATION OF THE EDUCATIONAL PROCESS AND THEIR SCOPE

Type of Learning Activity	Hours
Full-time form of study	
Lectures:	30
Practical Classes:	70
Independent Study (IS):	80
Total	180
Part-time form of study	
Lectures:	10
Practical Classes:	16
Independent Study (IS):	154
Total	180

4. THEMATIC PLAN

№	Topic Titles
1	Licensing of pharmaceutical activity.
2	The order of organization and opening of pharmacies (their structural subdivisions).
3	Organization of wholesale firms work and pharmacy warehouses.
4	Features of dispensing drugs to ambulatory patients with drugs that are subject to reimbursement.
5	Regulation of the circulation of narcotic drugs, psychotropic substances and precursors in Ukraine and internationally.
6	Features of writing out and sale of certain groups of drugs from pharmacies.
7	Organization of object-quantitative account of drugs in pharmaceutical enterprises.
8	Organization of pharmacy work from the prescriptions receiving on the drugs of individual preparation, their design and sale.
9	Features of price determination of individual medicinal forms.
10	Rules of carrying out of laboratory and packing works, their registration.
11	Organization of medical–prophylactic establishments providing. Organization of hospital and interhospital pharmacies work.
12	Organization of State system of drug quality control. Organization of inside-pharmacy control of drugs quality.
13	Organization of pharmacy work with goods supplies.
14	Features of storage of different groups of drugs and related products.
15	Concluding session of content module 1.
16	Organization of book-keeping account and accounting in pharmacies (pharmaceutical firms)
17	The structure of the accounts. The method of double entry of business transactions. Chart of Accounts and their relationship with the financial statements.
18	Accounting of the goods movement in pharmacies (pharmaceutical firms). Accounting of the goods movement expenses in the pharmacies (pharmaceutical firms).
19	Accounting of fixed assets in pharmacies (pharmaceutical companies)
20	Accounting of intangible assets in the pharmacy (pharmaceutical firms). Depreciation methods.
21	Accounting of intangible assets and another assets movement in the pharmaceutical companies.
22	Organizational requirements to the money means movement in pharmacies.
23	The design of money movement in the operating cash pharmacy.
24	Accounting of non-cash payments in the pharmacies.

25	Concluding session of content module 2.
26	Forms and wages of the system and organization payroll in pharmacies (pharmaceutical firms).
27	Incentive and compensation payments to pharmacy workers.
28	Pricing rules for finished drugs, medical devices and related products.
29	State regulation of drug pricing.
30	Inventory as a method of accounting.
31	Documentation of certain types of inventory.
32	Accounting of revenues and expenditures of pharmaceutical companies.
33	Economic calculations of commercial overlays. Profit and profitability of pharmacy establishments.
34	Determination and accounting of the results of trade and financial activity of pharmacies.
35	Concluding session of content module 3.

5. FORMS AND METHODS OF ASSESSMENT OF LEARNING OUTCOMES

Ongoing Assessment during Practical Classes	Methods: oral and/or written assessment and testing, computer-based assessment and testing, completion of situational tasks.
Final Assessment of the Academic Discipline – Pass/Fail Assessment	It is conducted during the final practical class and is determined on the basis of the student's ongoing academic performance in accordance with the Regulations on the Organisation of the Educational Process at National Pirogov Memorial Medical University, Vinnytsia: General Information / Key Documents https://www.vnmdu.edu.ua/downloads/other/polog_organiz_ocv_proc(2026).pdf
*Final Assessment of the Academic Discipline – differentiated assessment	It is conducted during the final practical class and is assessed in accordance with the Regulations on the Organisation of the Educational Process at National Pirogov Memorial Medical University, Vinnytsia: General Information / Key Documents https://www.vnmdu.edu.ua/downloads/other/polog_organiz_ocv_proc(2026).pdf
Assessment Tools for Learning Achievement	Theoretical questions, tests, clinically oriented situational tasks, practical assignments, demonstration of practical skills.

6. ASSESSMENT CRITERIA

Assessment of students' knowledge is carried out in accordance with the current Regulations on the Organisation of the Educational Process at National Pirogov Memorial Medical University, Vinnytsia. ([https://www.vnmdu.edu.ua/downloads/other/polog_organiz_ocv_proc\(2026\).pdf](https://www.vnmdu.edu.ua/downloads/other/polog_organiz_ocv_proc(2026).pdf))

Type of Assessment	Assessment Criteria / Scale
Ongoing Assessment	According to the traditional grading scale: 5 – “Excellent”, 4 – “Good”, 3 – “Satisfactory”, 2 – “Unsatisfactory”
Interim Assessments	According to the traditional grading scale
Final Grade of the Academic Discipline	The sum of points for the examination test (12–20 points) and oral assessment (38–60 points). Examination grade: 71–80 points – “Excellent”; 61–70 points – “Good”; 50–60 points – “Satisfactory”; fewer than 50 points – “Unsatisfactory” / Failed.
Overall Assessment for the Academic Discipline	Ongoing academic performance – 72–120 points (conversion of the average traditional grade for practical classes to the 120-point scale); 60% of the final grade for the academic discipline. Final Assessment – 50–80 points: 40% of the final grade for the academic discipline. Individual Assignments– 1–12 points. Total: 122–200 points.

GRADING SCALE: NATIONAL AND ECTS

Total Score for All Learning Activities	ECTS Grade	National Grade: Examination, Course Project (Paper), Practical Training	National Grade: Pass
180–200	A	Excellent	Passed
170–179.99	B	Good	Passed
160–169.99	C	Good	Passed

Total Score for All Learning Activities	ECTS Grade	National Grade: Examination, Course Project (Paper), Practical Training	National Grade: Pass
141–159.99	D	Satisfactory	Passed
122–140.99	E	Satisfactory	Passed
60–121.99	FX	Unsatisfactory, with the possibility of retaking	Failed, with the possibility of retaking
0–59.99	F	Unsatisfactory, with mandatory repetition of the discipline	Failed, with mandatory repetition of the discipline

Criteria for Assessing Students' Knowledge

Assessment of Oral/Written Responses during Ongoing Assessment

The grade “Excellent” is awarded when a student demonstrates comprehensive knowledge of the topic, illustrating responses with a variety of relevant examples; provides complete, accurate, and clear answers without prompting or leading questions; presents the material without errors or inaccuracies; confidently solves problems and completes practical tasks of varying levels of complexity; and independently generates innovative ideas.

The grade “Good” is awarded when a student demonstrates good knowledge and understanding of the topic and provides correct, coherent, and well-structured answers, although they may not be fully comprehensive. The student answers additional questions correctly and without significant errors; successfully solves problems and completes practical tasks, experiencing difficulties only with the most complex assignments.

The grade “Satisfactory” is awarded when a student demonstrates knowledge of the overall content of the topic and a satisfactory level of understanding. With the help of guiding questions, the student is able to solve modified (simplified) problems; solves problems and completes practical tasks, although experiencing difficulties even with relatively simple assignments; is unable to formulate a coherent and systematic response independently but provides correct answers to direct questions.

The grade “Unsatisfactory” is awarded when a student's knowledge and skills do not meet the requirements for the grade “Satisfactory”.

The assessment criteria for all other types of students' academic work are based on the requirements of the Regulations on the Organisation of the Educational Process at National Pirogov Memorial Medical University, Vinnytsya,

([https://www.vnmdu.edu.ua/downloads/other/polog_organiz_ocv_proc\(2026\).pdf](https://www.vnmdu.edu.ua/downloads/other/polog_organiz_ocv_proc(2026).pdf)) and are specified in the programme of the academic discipline.

Assessment of Students' Independent Study

Students' independent study undertaken as part of a topic alongside contact hours is assessed as part of the ongoing assessment of that topic during the relevant practical class.

The maximum number of points a student may receive upon completion of the discipline is 200 points. The minimum passing score is 122 points.

7. METHODOLOGICAL SUPPORT

Teaching and learning materials (lecture notes or extended lecture outlines), thematic plans for lectures, practical classes and independent study, assignments for ongoing assessment, methodological guidelines, and teaching manuals.

8. ACADEMIC DISCIPLINE POLICIES

The completion of learning activities and all academic work within the discipline must comply with the requirements of the Regulations on the Organisation of the Educational Process at National Pirogov Memorial Medical University, Vinnytsya; ([https://www.vnmdu.edu.ua/downloads/other/polog_organiz_ocv_proc\(2026\).pdf](https://www.vnmdu.edu.ua/downloads/other/polog_organiz_ocv_proc(2026).pdf)), the Regulations on the Organisation of the Educational Process for Higher Education Students Pursuing the Degree of Doctor of Philosophy at National Pirogov Memorial Medical University, Vinnytsya (https://www.vnmdu.edu.ua/downloads/other/pologPhD_org.pdf); the Law of Ukraine “On Education” (Article 42); the Law of Ukraine “On Academic Integrity”; and the Code of Academic

Integrity of National Pirogov Memorial Medical University, Vinnytsya (https://www.vnmu.edu.ua/downloads/other/kodex_akad_dobr_edit%202026.pdf)

Students are entitled to high-quality educational services and a safe learning environment under martial law, emergency situations and states of emergency; access to up-to-date scientific and educational information; and qualified academic guidance and support in studying the discipline and acquiring practical skills.

The Department's policy on the provision of educational services is student-centred and is based on the regulatory documents of the Ministry of Education and Science of Ukraine and the Ministry of Health of Ukraine, the University Statute, the procedures governing the provision of educational services, including in emergency situations, as stipulated by the principal regulations and administrative directives governing the organisation of the educational process at National Pirogov Memorial Medical University, Vinnytsya, as well as on the principles of academic integrity.

Academic Integrity. When studying the discipline and completing all types of learning assignments and/or research activities, students must comply with the Law of Ukraine "On Education" (Article 42), the Law of Ukraine "On Academic Integrity", and the Code of Academic Integrity of National Pirogov Memorial Medical University, Vinnytsya ([University website → General Information → Key Documents → Code of Academic Integrity](#)). In the event of a violation of academic integrity principles, appropriate measures shall be taken in accordance with the applicable regulatory documents.

Compliance with VNMU Internal Regulations and Safety Requirements during Practical Classes. At the first practical class, the instructor provides a safety briefing on appropriate conduct on the Department premises, informs students of the location of the shelter and the evacuation route to the shelter in accordance with the approved evacuation plan, explains the rules of conduct while proceeding to and remaining in the shelter, and provides instructions on all actions stipulated by the Emergency Response Plan (pursuant to Order No. 505 dated 30 August 2023). In the event of an air raid alert or any other emergency warning signal, the instructor suspends the class. The instructor and students proceed together to the shelter and remain there until the warning signal is cancelled. Once the alert has been lifted, the instructor and students either resume the class in the Department's classrooms or students independently complete the remaining learning material, which is subsequently assessed at the next class.

Requirements for Preparation for Practical Classes

Students are required to participate actively in the educational process: attend classes and come adequately prepared; complete the test tasks related to the current topic in their workbooks and fill in the required diagrams and tables; actively participate in discussions of the class topic; complete all assignments specified in the programme; search for additional information relevant to the topic and present it to their peers.

Students are expected to arrive at classes on time. Late arrival is not permitted in accordance with the Internal Regulations for Students of VNMU. A student who arrives more than 10 minutes late is not admitted to the class and is required to make up the missed class in accordance with the established procedure.

Students are expected to be polite, courteous, and respectful in their interactions with teaching staff, other University employees, fellow students, and other persons studying at VNMU. Students must maintain a quiet and orderly environment and demonstrate appropriate conduct on the Department premises.

In its activities, the Department adheres to the principles of mutual respect and tolerance. Students are expected to uphold the same principles.

Students must comply with safety regulations while on the Department premises.

When working in teaching and research laboratories, students must comply with the applicable safety regulations (published on the website of the Pharmacy Department). When completing practical assignments, students must keep their workstations clean and orderly and leave them tidy upon completion of the practical work.

Use of Mobile Phones and Other Electronic Devices. The use of mobile phones and other electronic devices during classes is not permitted, except for emergency calls or when such devices are used to present supplementary materials relevant to the topic of the class.

Absence from Classes. Missed classes must be made up in accordance with the procedure established by the current Regulations on the Organization of the Educational Process at National Pirogov Memorial Medical University, Vinnytsya ([https://www.vnmu.edu.ua/downloads/other/polog_organiz_ocv_proc\(2026\).pdf](https://www.vnmu.edu.ua/downloads/other/polog_organiz_ocv_proc(2026).pdf)), at the times specified in the make-up schedule published on the website of the Pharmacy Department ([VNMU website](#)), either with the instructor on duty or with the student's regular instructor. Making up a missed class involves completing the assignments related to the topic of the missed class in accordance with the specific requirements of the discipline.

Mastery of lecture topics is assessed during practical classes, seminars (including the assessment of practical skills), and final assessment, in accordance with the Regulations on the Organisation of the Educational Process at National Pirogov Memorial Medical University, Vinnytsya ([https://www.vnmu.edu.ua/downloads/other/polog_organiz_ocv_proc\(2026\).pdf](https://www.vnmu.edu.ua/downloads/other/polog_organiz_ocv_proc(2026).pdf))

Admission to Final Assessment. The procedure for admission to final assessment in the discipline is set out in the current Regulations on the Organisation of the Educational Process at National Pirogov Memorial Medical University, Vinnytsya ([https://www.vnmu.edu.ua/downloads/other/polog_organiz_ocv_proc\(2026\).pdf](https://www.vnmu.edu.ua/downloads/other/polog_organiz_ocv_proc(2026).pdf)).

Students are admitted to final assessment provided that they have no outstanding academic requirements: the average grade for ongoing assessment must be at least 3.0 (72 points on the 120-point scale); all final sessions for the content modules must have been completed with a passing grade ("3" or higher); and all missed practical classes must have been made up with a passing grade ("3" or higher). Otherwise, the student must improve their average grade by making up unsatisfactory grades and must make up all missed classes.

Additional Points for Individual Assignments. Students may receive additional points in the discipline for the successful completion of individual assignments, the content of which is published on the Department's website as part of the teaching and learning materials for the discipline. The number of points awarded is determined based on the results of the individual assignment in accordance with the current Regulations on the Organisation of the Educational Process at National Pirogov Memorial Medical University, Vinnytsya ([https://www.vnmu.edu.ua/downloads/other/polog_organiz_ocv_proc\(2026\).pdf](https://www.vnmu.edu.ua/downloads/other/polog_organiz_ocv_proc(2026).pdf)).

Resolution of Conflict Situations

In the event of misunderstandings or concerns regarding the quality of educational services, assessment of academic performance, or other conflict situations involving an instructor, students should first raise their concerns directly with the instructor. If the issue remains unresolved, the student has the right to submit an appeal to the Head of the Department in accordance with the Regulations on the Consideration of Appeals from Higher Education Students at National Pirogov Memorial Medical University, Vinnytsya ([VNMU website](#) → [General Information](#) → [Key Documents](#)).

Students also have the right to contact the student self-government bodies, the administration of the Faculty (Institute), or the University administration, either directly or through the designated feedback channels ("trust boxes"), links and addresses for which are available on the official VNMU website.

The Department recognises that a student-centred approach entails students' responsibility for the conscious and active acquisition of knowledge and for proper compliance with the rules and requirements established by applicable legislation and VNMU regulatory documents. The Department reserves the right to inform the relevant University bodies of any violations committed by students.

Policy on Blended Learning

The organisation of blended learning is governed by the Regulations on the Introduction of Elements of Distance Learning at National Pirogov Memorial Medical University, Vinnytsya

([VNMU website](#) → [General Information](#) → [Key Documents](#)). The main online learning platforms used for classes are Microsoft Teams and Google Meet.

The procedures for conducting practical classes, lectures, make-up classes, and consultations in the distance learning format are published on the Department's webpage ([VNMU website](#) → Pharmacy Department → For Students/Postgraduate Students → Mode of Study → Year of Study → Teaching and Learning Materials).

Communication with the Instructor. Students may contact the instructor via Microsoft Teams chat, messaging applications (Viber, Telegram, WhatsApp), or email, as determined by the instructor, during working hours.

9. LEARNING RESOURCES

Teaching and learning materials for the discipline are available on the Department's website. The materials can be accessed via: [VNMU website](#) → [\[Pharmacy Department\]](#) → [For Students/Postgraduate Students](#).

LITERATURE

Core Literature for Organization and Economy of Pharmacy:

1. Organization and Economics of Pharmacy. Part I. Organization of Pharmaceutical Provision for the Population: National Textbook for Students of Higher Educational Institutions / A.S. Nemchenko, V.M. Nazarkina, H.L. Panfilova, K.L. Kosiachenko, L.O. Hala. – Kharkiv: NUPh: Zoloti Storinky, 2015. – 360 p.
2. Organization and Economics of Pharmacy [Text]: National Textbook for Higher Educational Institutions / National University of Pharmacy (NUPh); ed. by A.S. Nemchenko. – (National Textbook). Part 2: Accounting Systems in Pharmacy / A.S. Nemchenko [et al.], 2016. – 416 p.
3. Organization and Economics of Pharmacy. Part III. Fundamentals of the Economics of Pharmacy: National Textbook for Students of Higher Educational Institutions / A.S. Nemchenko, H.L. Panfilova, V.M. Nazarkina, L.O. Hala. – Kharkiv: NUPh, 2017. – 272 p.
4. Organization of Pharmaceutical Provision for the Population: Methodological Manual for Practical Classes in the Discipline "Organization and Economics of Pharmacy." Kyiv: Kyiv International University (KIU) / D.V. Semeniv (Professor, Doctor of Pharmaceutical Sciences, KIU), O.V. [Surname omitted in source] (Associate Professor, Candidate of Pharmaceutical Sciences, KIU). Hetalo (Associate Professor, Candidate of Pharmaceutical Sciences, IFNMU), O.S. Samborskyi (Candidate of Pharmaceutical Sciences, IFNMU), Yu.V. Baihush (Candidate of Pharmaceutical Sciences, Associate Professor, KyMU), L.H. Shostak (Candidate of Pedagogical Sciences, P.L. Shupyk NMAPO), N.A. Bilousova, 2021. 94 p.
5. Law of Ukraine dated July 28, 2022, No. 2469-IX "On Medicinal Products." Version as of June 5, 2025; basis: 4454-IX. URL: <https://zakon.rada.gov.ua/laws/show/2469-20#Text>
6. Law of Ukraine "On Remuneration of Labor," No. 2888-IX. Version as of April 1, 2023; basis: 2888-IX. URL: <https://zakon.rada.gov.ua/laws/show/2888-20#n326>
6. Law of Ukraine dated July 16, 2025, No. 4536-IX "On Amendments to the Tax Code of Ukraine and Other Legislative Acts." URL: <https://zakon.rada.gov.ua/laws/show/4536-20#Text>
7. Law of Ukraine No. 4791-IX dated February 24, 2026, "On Accounting and Financial Reporting in Ukraine." URL: <https://zakon.rada.gov.ua/laws/show/3257-20#n62>
8. Law of Ukraine "On Electronic Documents and Electronic Document Circulation," No. 851-IV. Version as of March 1, 2026; legal basis: 1206-IX. URL: <https://zakon.rada.gov.ua/laws/show/851-IV#Text>
9. Law of Ukraine dated December 3, 2025, No. 4695-IX "On the State Budget of Ukraine for 2026". URL: <https://zakon.rada.gov.ua/laws/show/>
10. Law of Ukraine dated June 30, 2021, No. 1591-IX "On Payment Services." URL: <https://zakon.rada.gov.ua/laws/show/1591-20#Text>
11. Law of Ukraine "On Emergency Medical Care." Version as of January 1, 2024; basis: 1909-IX. URL: <https://zakon.rada.gov.ua/laws/show/5081-17#Text>

12. Law of Ukraine "On Narcotic Drugs, Psychotropic Substances, and Precursors." Version as of March 31, 2023, No. 2849-IX. URL: <https://zakon.rada.gov.ua/laws/show/60/95-%D0%B2%D1%80#Text>
13. Law of Ukraine "On Measures to Counteract the Illicit Trafficking of Narcotic Drugs, Psychotropic Substances, and Precursors, and Their Abuse." Version as of January 1, 2024, No. 1909-IX. URL: <https://zakon.rada.gov.ua/laws/show/62/95-%D0%B2%D1%80#Text>
14. Law of Ukraine No. 2806-IV "On the Permitting System in the Sphere of Economic Activity." Current version as of March 2, 2026; basis: 4718-IX. URL: <https://zakon.rada.gov.ua/laws/show/2806-15#Text>
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19. Resolution of the Cabinet of Ministers of Ukraine No. 929 "On Approval of Licensing Conditions for Conducting Business Activities Related to the Manufacturing of Medicinal Products, Wholesale and Retail Trade in Medicinal Products, and the Import of Medicinal Products." Version as of June 1, 2026; legal basis: 377-2026-p. URL: <https://zakon.rada.gov.ua/laws/show/929-2016-%D0%BF#Text>
20. Methodology for Pricing Medicinal Products within the Healthcare System [Text] : [monograph] / V. M. Nazarkina [et al.]; ed. by A. S. Nemchenko, 2022. – 288 p.
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24. Organization and Economics of Pharmacy: Methodological... Guidelines for practical sessions for higher education students majoring in 226 "Pharmacy, Industrial Pharmacy" / O. Balitska, O. Blahun, M. Balynska, O. Haidai, V. Zlahoda. – Vinnytsia; approved by the Academic Council of the Pirogov Vinnytsia National Medical University, Minutes No. 10 dated May 31, 2024. – 170 p.

Supplementary Literature for Organization and Economy of Pharmacy:

1. Resolution of the Cabinet of Ministers of Ukraine dated May 27, 2026, No. 687 "On Certain Issues Regarding the National List of Essential Medicines." URL: <https://zakon.rada.gov.ua/laws/show/687-2026-%D0%BF#Text>
2. Resolution of the Cabinet of Ministers of Ukraine No. 955 "On Measures to Stabilize Prices for Medicinal Products"; current version — version as of March 1, 2025 (based on Resolution No. 168-2025-p). URL: <https://zakon.rada.gov.ua/laws/show/955-2008-%D0%BF#Text>
3. Resolution of the Cabinet of Ministers of Ukraine No. 333 "On Certain Issues Regarding State Regulation of Prices for Medicinal Products and Medical Devices"; current version — version as of October 10, 2025 (based on Resolution No. 1268-2025-p). URL: <https://zakon.rada.gov.ua/laws/show/333-2009-%D0%BF#Text>
4. Resolution of the Cabinet of Ministers of Ukraine dated April 4, 2025, No. 439 "On Certain Issues Regarding State Regulation of Prices for Medicinal Products." URL: <https://zakon.rada.gov.ua/laws/show/439-2025-%D0%BF#Text>
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6. Resolution of the Cabinet of Ministers of Ukraine dated December 26, 2025, No. 976 "On Amendments to the Licensing Conditions for Conducting Business Activities Related to the Manufacturing of Medicinal Products, Wholesale and Retail Trade in Medicinal Products, and the Import of Medicinal Products (Excluding Active Pharmaceutical Ingredients)." URL: <https://zakon.rada.gov.ua/laws/show/1802-2025-%D0%BF#Text>
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8. Resolution of the Cabinet of Ministers of Ukraine dated April 19, 2020, No. 426 "On Reference Pricing for Certain Medicinal Products Procured Using Budget Funds." URL: <https://zakon.rada.gov.ua/laws/show/426-2019-п#Text>
9. Resolution of the Cabinet of Ministers of Ukraine dated August 13, 2025, No. 996. "On Amendments to the Licensing Conditions for Conducting Business Activities Related to the Cultivation of Plants (Except for Cannabis for Industrial Purposes, as Defined by the Law of Ukraine 'On Narcotic Drugs, Psychotropic Substances, and Precursors')." URL: <https://zakon.rada.gov.ua/laws/show/996-2025-%D0%BF#Text>
10. Resolution of the Cabinet of Ministers of Ukraine No. 1303 "On the Regulation of the Provision of Medicinal Products Free of Charge or on Preferential Terms Based on Physicians' Prescriptions for Outpatient Treatment of Certain Population Groups and for Specific Categories of Diseases" — Current version as of January 1, 2025; legal basis: 1542-2024-p. URL: <https://zakon.rada.gov.ua/laws/show/1303-98-%D0%BF#Text>
11. Resolution of the Cabinet of Ministers of Ukraine No. 902 "On Approval of the Procedure for Exercising State Quality Control over Medicinal Products Imported into Ukraine" — Version as of June 1, 2026; legal basis: 377-2026-p. URL: <https://zakon.rada.gov.ua/laws/show/902-2005-%D0%BF#Text>
12. Resolution of the Cabinet of Ministers of Ukraine dated February 14, 2025, No. 168 "On Amendments to Certain Resolutions of the Cabinet of Ministers of Ukraine Regarding the Stabilization of Prices for Medicinal Products." URL: <https://zakon.rada.gov.ua/laws/show/168-2025-%D0%BF#Text>
13. Resolution of the Cabinet of Ministers of Ukraine No. 1052 "On Approval of the Regulation on the State Emergency Service of Ukraine." Current version — Version as of September 5, 2025; legal basis: 1090-2025-p

- URL: <https://zakon.rada.gov.ua/laws/show/1052-2015-%D0%BF#Text>

14. Resolution of the Cabinet of Ministers of Ukraine dated July 14, 2021, No. 725 "On Approval of the Regulation on the System of Continuous Professional Development for Healthcare Professionals." URL: <https://zakon.rada.gov.ua/laws/show/725-2021-%D0%BF#Text>

15. Resolution of the Cabinet of Ministers of Ukraine dated June 4, 2026, No. 742 "On Amendments to Certain Resolutions of the Cabinet of Ministers of Ukraine Regarding the Improvement of the Medicinal Products Reimbursement Program." URL: <https://zakon.rada.gov.ua/laws/show/742-2026-%D0%BF#Text>

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21. Order of the Ministry of Health of Ukraine dated June 16, 2026, No. 815 "On Amendments to the Criteria for Determining Enterprises, Institutions, and Organizations of Importance to the National Economy in the Healthcare Sector." URL: <https://zakon.rada.gov.ua/laws/show/z0894-26#Text>

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24. Order of the Ministry of Health of Ukraine dated March 16, 2026, No. 324 "On Approval of the Lists of Medicinal Products and Medical Devices Subject to Reimbursement under the State Guarantees Program for Medical Care for the Population."

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ELECTRONIC RESOURCES

1. University website: [National Pirogov Memorial Medical University, Vinnytsya](#)
2. Department website: [VNMU Departments](#) — Pharmacy Department
3. University Library website: [VNMU Library](#)
4. National Scientific Medical Library of Ukraine: [National Scientific Medical Library of Ukraine](#)
5. World Health Organization: [World Health Organization \(WHO\)](#)
6. Ministry of Health of Ukraine: [Ministry of Health of Ukraine](#)
7. Public Health Center of the Ministry of Health of Ukraine: [Public Health Center of Ukraine](#)
8. English-language database of medical and biomedical literature: [PubMed](#)
9. English-language online resource for physicians and other healthcare professionals: [Medscape](#)
10. State Expert Center of the Ministry of Health of Ukraine: [State Expert Center of the Ministry of Health of Ukraine](#)
11. State Service of Ukraine on Medicines and Drugs Control: <https://www.dls.gov.ua/>
12. Ukrainian Pharmaceutical Quality Institute: [Home page](#)
13. Verkhovna Rada of Ukraine: [Legislation of Ukraine](#)

The course syllabus for the academic discipline **“Organization and Economy of Pharmacy”** was discussed and approved at the meeting of the Department of Pharmacy (Protocol No. 1, dated "26" August 2026).

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