



The syllabus of the discipline "Social Pharmacy"

1. General information	
The name of the faculty	Pharmaceutical
Educational program (branch, specialty, level of higher education, form of education)	22 Healthcare 226 Pharmacy, industrial pharmacy, second (master's) level of higher education, full-time
Academic year	2023-2024
Name of discipline, code (e-mail address on the website of Danylo Halytsky LNMU)	OK 25.2 "Social Pharmacy" Kaf _ organizationpharm @ meduniv . lviv . ua
Department (name, address, phone, e-mail)	Organization and Economics of Pharmacy, Lviv, Pekarska str. 69 (032) 2768639 Kaf_organizationpharm@meduniv.lviv.ua
Head of the department (contact e-mail)	Head of the Department, Doctor of Pharmacy, Professor Hromovyk B.P., hromovyk@gmail.com
Year of study (year in which the study of the discipline)	5
Semester (semester in which the study of the discipline is implemented)	9
Type of course / module (obligatory / optional)	Required
Teachers (names, surnames, scientific degrees and titles of teachers who teach the discipline, contact e-mail)	Dorykevych Kateryna, PhD of Pharmaceutical Sciences, Associate Professor, kpushak@gmail.com
Erasmus yes / no (availability of the discipline for students within the Erasmus + program)	No
Person responsible for the syllabus (person to be commented on the syllabus, contact e-mail)	Horodetska Iryna Yaroslavivna, Candidate of Pharmacy, Associated Professor, horodetska@gmail.com
Number of ECTS credits	3
Number of hours	Total: 90, inc. lectures - 8, practical classes - 30, independent work of students - 52.
Language of teaching	Ukrainian, English
Information about	According to the schedule of the department

consultations		
Address, telephone and regulations of the clinical base, office ... (if necessary)		
2. Short annotation to the course		
<p>The discipline "Social Pharmacy" is the final in a set of pharmaceutical management and economic disciplines that form masters of pharmacy. The subject of the discipline is the theoretical and methodological foundations of socio-economic aspects of professional activity in the field of pharmacy and improving the mechanisms of availability of pharmaceutical care. The study of the discipline is aimed at forming in applicants for higher pharmaceutical education a sufficient amount of theoretical knowledge and practical skills to plan and implement work to improve the quality of pharmaceutical care and the formation of social responsibility of pharmaceutical workers.</p>		
3. The purpose and objectives of the course		
<p>The purpose of teaching the discipline "Social Pharmacy" is the formation of higher education systemic knowledge of socio-economic aspects of the organization of pharmaceutical support at the macro- and microeconomic levels, as well as the formation of professionally important skills to implement socio-economic mechanisms to ensure access to pharmaceutical care.</p> <p>The main tasks of studying the discipline "Social Pharmacy" are the acquisition of higher education by students with special knowledge and skills on the theoretical foundations of social policy in providing the population with medicines and medical devices; use of the legal framework for regulating the social and economic aspects of pharmaceutical activities; conducting a comprehensive analysis of the main socio-economic indicators of the effectiveness of pharmaceutical supply to the population; adherence to the basic principles of social responsibility in the implementation of professional activities by specialists in the pharmaceutical sector of health care.</p>		
4. Prerequisites of the course		
<p>The study of the discipline "Social Pharmacy" is based on general knowledge of such disciplines as "Ethics and Deontology in Pharmacy", "Pharmaceutical Law and Legislation", "Organization and Economics of Pharmacy", "Pharmaceutical Management and Marketing", "Clinical Pharmacy and Pharmaceutical Care", "Pharmacoeconomics".</p>		
5. Program learning outcomes		
List of learning outcomes		
Learning outcome code	The content of the learning outcome	Reference to the competency matrix code
Kn-1	Know your social and community rights and responsibilities	GC 1, PLO 1, PLO 25
Kn-2	Know the methods of implementing knowledge in solving practical problems	GC 2, PLO 2, PLO 4, PLO 6, PLO 24
Kn-3	Know the current trends in the industry and analyse them	GC 4, PLO 2, PLO 4, PLO 7
Kn-4	Know the structure and features of professional activity	GC 6, PLO 1, PLO 2, PLO 6, PLO 21, PLO 24, PLO 25
Kn-5	Have a perfect knowledge of the state language and basic knowledge of a foreign language	GC 8, PLO 8
Kn-6	Know the official information sources in the field of professional activity	GC 9, PLO 4, PLO 6, PLO 7, PLO 9, PLO 25
Kn-7	Know the main provisions of current tax legislation, the principle of calculation, analysis and forecasting of key indicators of economic and financial activities of pharmacies	PC 8, PLO 2, PLO 9, PLO 21, PLO 24, PLO 25
Kn-8	Know the methods of analysis of economic activity of pharmacies, calculation of basic taxes and fees, pricing of medicines	PC 9, PLO 2, PLO 21

Kn-9	Know: the organizational structure of the pharmaceutical supply system in Ukraine; organizational and methodological principles of definition and basic mechanisms for ensuring the availability of pharmaceutical care to the population; medical and social indicators of society development; indicators of the need for pharmaceutical care and approaches to determining the degree of its satisfaction; modern principles of world practice in providing pharmaceutical care to socially vulnerable groups: children, women, the elderly, patients with severe and orphan diseases; basics of state social policy, methods and indicators of its effectiveness; functioning of the system of reimbursement of the cost of pharmaceutical care; basics of social partnership and social responsibility in pharmacy	PC 11, PLO 1, PLO 2, PLO 6, PLO 7, PLO 21, PLO 23
Kn-10	Know the regulatory and legal framework of Ukraine, a set of good pharmaceutical practices that regulate the requirements for professional activity	PC 12, PLO 2, PLO 4, PLO 9, PLO 21, PLO 23, PLO 24, PLO 25
S-1	To form one's civic consciousness, to be able to act in accordance with it	GC 1, PLO 1, PLO 25
C-2	Be able to use professional knowledge to solve practical situations	GC 2, PLO 2, PLO 4, PLO 6, PLO 24
C-3	Be able to analyse professional information, make informed decisions, acquire modern knowledge	GC 4, PLO 2, PLO 4, PLO 7
C-4	Be able to carry out professional activities that require updating and integration of knowledge	GC 6, PLO 1, PLO 2, PLO 6, PLO 21, PLO 24, PLO 25
C-5	Be able to apply knowledge of the state language, both orally and in writing, be able to communicate in a foreign language	GC 8, PLO 8
C-6	Be able to use and cooperate with the official websites of regulatory and regulatory authorities, reference resources, etc.	GC 9, PLO 4, PLO 6, PLO 7, PLO 9, PLO 25
C-7	Ability to determine, analyse and forecast the main economic indicators of pharmacies, calculate mandatory taxes and fees	FK 8, PLO 2, PLO 9, PLO 21, PLO 24, PLO 25
S-8	Have methods of analysis of economic and economic activities of pharmacies, calculation of basic taxes and fees, pricing of medicines	PC 9, PLO 2, PLO 21
S-9	Analyse indicators of efficiency and availability of pharmaceutical care. Draw conclusions about the impact of socioeconomic factors on health	PC 11, PLO 1, PLO 2, PLO 6, PLO 7, PLO 21, PLO 23
S-10	Be able to apply knowledge of regulations, legislation of Ukraine and recommendations of good pharmaceutical practices in practice	PC 12, PLO 2, PLO 4, PLO 9, PLO 21, PLO 23, PLO 24, PLO 25
C-1	Ability to convey one's public and social position	GC 1, PLO 1, PLO 25
C-2	Establish links with the subjects of practical activities	GC 2, PLO 2, PLO 4, PLO 6, PLO 24
C-3	Establish appropriate connections to achieve goals	GC 4, PLO 2, PLO 4, PLO 7
C-4	To form a communication strategy in professional activity	GC 6, PLO 1, PLO 2, PLO 6, PLO 21, PLO 24, PLO 25

C-5	Use the state language in professional and business communication and in the preparation of documents. Use a foreign language in professional activities	GC 8, PLO 8
C-6	Carry out professional communications on internet	GC 9, PLO 4, PLO 6, PLO 7, PLO 9, PLO 25
C-7	Establish appropriate links to achieve goals	PC 8, PLO 2, PLO 9, PLO 21, PLO 24, PLO 25
C-8	Carry out professional communications with controlling organizations	PC 9, PLO 2, PLO 21
C-9	To form a communication strategy in professional activity.	PC 11, PLO 1, PLO 2, PLO 6, PLO 7, PLO 21, PLO 23
C-10	To form conclusions and professionally apply laws and regulations	PC 12, PLO 2, PLO 4, PLO 9, PLO 21, PLO 23, PLO 24, PLO 25
AB-1	Be responsible for your civic position and activities	GC 1, PLO 1, PLO 25
AB-2	Be responsible for the timeliness of decisions	GC 2, PLO 2, PLO 4, PLO 6, PLO 24
AB-3	Be responsible for the timely acquisition of modern knowledge	GC 4, PLO 2, PLO 4, PLO 7
AB-4	Be responsible for professional development with a high level of autonomy	GC 6, PLO 1, PLO 2, PLO 6, PLO 21, PLO 24, PLO 25
AB-5	Be responsible for fluency in the native language	GC 8, PLO 8
AB-6	Be responsible for the late implementation of mandatory communications	GC 9, PLO 4, PLO 6, PLO 7, PLO 9, PLO 25
AB-7	Be responsible for compliance with pharmaceutical legislation in the field of administrative records, the use of appropriate reporting systems and management, statistical accounting and financial accounting	PC 8, PLO 2, PLO 9, PLO 21, PLO 24, PLO 25
A-8	Be responsible for compliance with the legislation on business taxation and pricing of medicines	PC 9, PLO 2, PLO 21
A-9	Be responsible for providing quality pharmaceutical care at the level of the business entity	PC 11, PLO 1, PLO 2, PLO 6, PLO 7, PLO 21, PLO 23
A-10	Be responsible for the quality and timely application of regulations in professional activities	PC 12, PLO 2, PLO 4, PLO 9, PLO 21, PLO 23, PLO 24, PLO 25

6. Format and scope of the course

Course format	Full-time education	
Kind of occupations	Number of hours	Number of groups
Lectures (L)	8	5
Practical classes (PC)	30	5
Seminars (S)	-	
Independent students' work (ISW)	52	5

7. Topics and content of the course

Code	Topic	Learning content	Learning outcome code	Teacher
L-1 PC-1 ISW-1	Theoretical bases and directions of realization of social policy in providing the population with medicines	Goals, values, priorities, key functions, strategies, problems and tasks of the health care system of Ukraine in modern conditions. Components of quality assessment of medical and pharmaceutical care. The concept of reforming the financing of the health care system. Formation and development of social	PLO 1, PLO 2, PLO 4, PLO 6, PLO 7, PLO 8, PLO 9, PLO 21, PLO 23, PLO 24, PLO 25	Horodetska I.Ya. Kornienko O.M., Hrushkovska D.T.

		pharmacy. Social significance of medicines. Indicators of drug availability. Health insurance as a component of social policy of the state. eHealth is an electronic healthcare system.		
L-2 PC-2 ISW-2	Socio-economic approaches to providing the population with medicines and medical devices	State guarantees in the field of providing medicines for certain socially important diseases, socially dangerous and orphan diseases, unprotected segments of the population. System of public procurement of medicines, medical devices and technical means of rehabilitation in Ukraine. The procedure for financing free and preferential dispensing of medicines in the case of outpatient treatment of certain groups of the population and for certain categories of diseases. Implementation of pharmaceutical support of state, municipal and private treatment and prevention facilities. Reference pricing during public procurement. Features of setting the retail price for medicines, medical devices, related pharmaceutical products for various forms of leave. The main provisions of the regulatory framework of the government program "Affordable Medicines". Peculiarities of writing and recording of electronic prescriptions. Mechanism of drugs reimbursement.	PLO 1, PLO 2, PLO 4, PLO 6, PLO 7, PLO 8, PLO 9, PLO 21, PLO 23, PLO 24, PLO 25	Horodetska I.Ya. Kornienko O.M., Hrushkovska D.T.
L-3 PC-3 ISW-3	State social guarantees to ensure the professional rights, benefits and income of pharmaceutical workers	Regulatory regulation of professional rights and benefits for pharmaceutical workers. State social guarantees in the field of income. Criteria for determining the size of salaries of administrative and pharmaceutical staff of pharmacies. The order of accrual of various types of payments: wages, for work on holidays, for overtime work, part-time work, management of industrial practice, benefits in connection with temporary incapacity for work, etc. The procedure for accrual, withholding and payment of mandatory deductions from the income of individuals. Features of the application of social tax benefits. Tax rebate.	PLO 1, PLO 2, PLO 4, PLO 6, PLO 7, PLO 8, PLO 9, PLO 21, PLO 23, PLO 24, PLO 25	Horodetska I.Ya. Kornienko O.M., Hrushkovska D.T.
L-4 PC-4 ISW-4	Social responsibility of the pharmaceutical business	Features of the mission of pharmaceutical business entities. Compliance with legal requirements and fair competition in the market. Increasing the social attractiveness of the pharmacy in modern conditions. Development of a package of social initiatives for a pharmacy: a mechanism for providing discounts to certain categories of the population, loyalty cards, loyalty programs, accumulative bonuses, etc. Participation of pharmaceutical companies in charitable and humanitarian projects.	PLO 1, PLO 2, PLO 4, PLO 6, PLO 7, PLO 8, PLO 9, PLO 21, PLO 23, PLO 24, PLO 25	Horodetska I.Ya. Kornienko O.M., Hrushkovska D.T.
L-5 PC-5 ISW-5	Social responsibility in the professional activity of pharmacy specialists	Trends in the concept of social responsibility and its place in the management system. Substantiation of social responsibility in pharmacy on a personal level. Conceptual provisions and methodology of formation of social responsibility of pharmacy specialists. Peculiarities of providing pharmaceutical care to certain categories of patients (oncology patients, palliative patients, patients with rare diseases, geriatric patients, etc.).	PLO 1, PLO 2, PLO 4, PLO 6, PLO 7, PLO 8, PLO 9, PLO 21, PLO 23, PLO 24, PLO 25	Horodetska I.Ya. Kornienko O.M., Hrushkovska D.T.
L-6 PC-6	Social pharmacy and law.	Contradictions and uncertainties in the regulation of the pharmaceutical healthcare	PLO 1, PLO 2, PLO 4, PLO 6,	Horodetska I.Ya. Kornienko O.M.,

ISW-6	Pharmaceutical self-government. Humanitarian and volunteer assistance	sector. Ways to solve practical problems caused by legal contradictions. Social responsibility and control over compliance with the legislation in the field of advertising of medicines and related pharmacy products. Key problems of non-drug use of drugs and directions of their further solution. The social role of the pharmacist in preventing the release of drugs for non-medical use. Pharmaceutical self-government. The role of associations in improving aspects of pharmaceutical care. Humanitarian and volunteer assistance.	PLO 7, PLO 8, PLO 9, PLO 21, PLO 23, PLO 24, PLO 25	Hrushkovska D.T.
L-7 PC-7 ISW-7	The social significance of pharmaceutical prevention as a component of maintaining public health	Improving public literacy in health issues as one of the key elements of the WHO international strategy. Pharmaceutical aspects of maintaining health and promoting a healthy lifestyle. Social significance of pharmaceutical prevention. The role of pharmaceutical care in the release from pharmacies of drugs, medical devices and related products of the pharmacy range. Responsible self-medication and pharmaceutical care. Over-the-counter drugs in the implementation of the concept of responsible self-medication. Advantages and disadvantages of free access to information on the use of drugs by a wide range of consumers.	PLO 1, PLO 2, PLO 4, PLO 6, PLO 7, PLO 8, PLO 9, PLO 21, PLO 23, PLO 24, PLO 25	Horodetska I.Ya. Kornienko O.M., Hrushkovska D.T.

8. Verification of learning outcomes

Current control

Learning outcome code	Code	Method of verifying learning outcomes	Enrolment criteria
<i>Kn-1-10</i> <i>S-1-10</i> <i>C-1-10</i> <i>AB-1-10</i>	L -17, PC-1-7, ISW 1-7	Observation of educational and cognitive activities of students in the classroom, oral examination, written control of knowledge through written testing using a set of standardized tasks to establish the input and output level of knowledge, structured control of practical skills; control of practical work.	Assessment of current learning activities is standardized and includes control of theoretical and practical training on a traditional 4-point scale. Grades on a traditional scale are converted into points.

Final control

General evaluation system	Participation in the work during the semester on a 200-point scale		
Rating scales	traditional 4-point scale, multi-point (200-point) scale, ECTS rating scale		
Conditions of admission to the final control	Students who have attended all the classes provided by the curriculum, performed all types of work provided by the program and received grades sufficient to convert to the minimum number of points (not less than 120 points for current performance) are allowed to the final control.		
Test	It consists in assessing the student's mastery of educational material solely on the basis of the results of his performance of certain types of work in practical classes and during independent work. The semester test is held at the last lesson of the discipline. The test in the discipline is set according to the results of the current control and is expressed on a		

The maximum number of points is 200.
The minimum number of points is 120

two-point scale: "credited" or "not credited".

9. Course policy

Every higher education applicant should read and follow:

- Code of Academic Ethics of Danylo Halytskyi Lviv National Medical University (<http://nauka.meduniv.lviv.ua/wp-content/uploads/2020/04/kodeks-akademichnoyi-etiki.pdf>) and Guidelines for Supporting the Principles of Academic Integrity (https://new.meduniv.lviv.ua/uploads/repository/else/quality_dept/07.Academic_goodness/01.Methodical_recommendations.pdf);

- Charter (https://new.meduniv.lviv.ua/uploads/repository/dept/law_dept/01.Statut_statut_2018.pdf) and the Rules of an internal labor regulations (https://new.meduniv.lviv.ua/uploads/repository/dept/human_resources_dept/02).

- Strategies and procedures for quality assurance (https://new.meduniv.lviv.ua/uploads/repository/else/quality_dept/01.Stratehiya%2C%20polityka_ta%20protsedury_zabezpechennya_yakosti_osvity/01.Stratehiya_ta_protsedury_zabezpechennya_yakosti_osvity.pdf), Regulations on the organization of educational process (https://new.meduniv.lviv.ua/uploads/repository/dept/nv_dept/09.Dokumenty_z_orhanizatsiyi_osvitnoho_protsesu/01.Polozhennya_pro_orhanizatsiyu_osvitnoho_protsesu_LNMU.pdf) and on the criteria, rules and procedure to assess the results of training activities (https://new.meduniv.lviv.ua/uploads/repository/dept/nv_dept/09).

For successful mastering of the course the applicant of higher education is obliged:

- to take an active part in the educational process, in particular to properly study the educational material on each topic;

- not to miss lectures and practical classes without a good reason, and in case of illness to provide information;

- not to be late for lectures and practical classes;

- timely work off missed classes;

- prepare for practical classes and maintain feedback during them;

- timely and accurately perform tasks for ISW;

- turn off your mobile phone during lectures and practical classes;

- to take proper part in control measures (current control, ISW control, final control), during which hints and write-offs are inadmissible.

Any copying or reproduction of the results of someone else's work, unless the work has a group format, the use of materials downloaded from the Internet qualifies as a violation of the rules and regulations of academic integrity and involves bringing the perpetrator to justice under applicable regulations.

Non-compliance and / or non-compliance with the course policy may result in a grade of "unsatisfactory".

10. Literature

Required

1.Громовик Б.П., Терещук С.І., Чухрай І.Л. Організація та економіка фармації / Б.П. Громовика, С.І. Терещук, І.Л. Чухрай. – Вінниця, Нова книга, 2009. – 816 с.

2.Котвіцька А.А. Соціальна фармація [Електронний ресурс] /А.А.Котвіцька// Фармацевтична енциклопедія. – Режим доступу: <https://www.pharmencyclopedia.com.ua/article/6637/socialna-farmaciya>

3.Котвіцька А.А. Соціальна фармація як складова системи фармацевтичного забезпечення населення та міждисциплінарна наука /А.А.Котвіцька, І.В.Кубарева, О.О.Суріков, А.В.Волкова. – Соціальна фармація в Україні: стан, проблеми та перспективи: матер.всеукр.наук.-практ.Інтернет-конференції за участю міжнародних спеціалістів, 3 квітня 2013 р.: За ред.А.А.Котвіцької та ін. – Х. : Вид-во НФаУ, 2013. – С.14-28.

4.Котвіцька А.А. Вивчення основних етапів становлення та розвитку соціальної фармації у світі та Україні / А.А.Котвіцька, І.В.Кубарева, І.О.Сурікова// Фармацевтичний часопис. -2017.

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5.Котвіцька А.А. Вивчення змісту та передумов формування концепції соціальної фармації в країнах світу та в Україні // А.А.Котвіцька, І.В.Кубарева, І.О.Сурікова // Соціальна фармація в охороні здоров'я. – 2017. – Т.3,№ 4. – С.3-4.

6.Ткаченко Н.О. Соціальна відповідальність у професійній діяльності фармацевтичних працівників/ Н.О.Ткаченко; за наук.ред.проф. Б.П.Громовика. – Запоріжжя: Вид-во ЗДМУ, 2018. – 217 с.

7.Шаповал Н.М. Соціальна відповідальність бізнесу в структурі управління економікою: монографія / В.М.Шаповал; ДВНЗ «Нац. гірн.ун-т». – Д.: Держ. ВНЗ «НГУ», 2011. – 356 с.

Additional

8.Громовик Б.П. Інформаційне супроводження процесу фармакотерапії у паліативній та хоспісній медицині : монографія / Б.П. Громовик, С.Є. Прокіп. – Львів: Ліга-Прес, 2015. – 96 с.

9.Громовик Б.П. Менеджмент і маркетинг у фармації: підручник / Б.П. Громовик, Г.Д. Гасюк, О.Р. Левицька; за ред. д-ра фарм. наук, проф. Б.П. Громовика. – К.: Медицина, 2008. – 752 с.

10. Громовик Б.П. Неперервна фармацевтична освіта в Україні: науково-методичні аспекти управлінсько-економічної підготовки: монографія / Б.П. Громовик, А.В. Горілик. – Львів: Растр. – 7, 2012. – 166 с.

11. Громовик Б.П. Фармацевтична логістика : фокус на допомозі пацієнту : монографія / Б. П. Громовик, Л. М. Унгурян. – Львів: РАСТР-7, 2013. – 212 с.

12. Лебедь С.О. Історичні аспекти та сучасний стан фальсифікації лікарських засобів в Україні та світі: монографія; за науковою редакцією професора Б.П. Громовика / С.О. Лебедь. – Рівне: Волин. обереги, 2018. – 320 с.

13. Левицька О.Р. Ішемічний інсульт: клініко-фармацевтичні аспекти: монографія / О.Р. Левицька, Б.П. Громовик, А.Б. Зіменковський. – Львів: Ліга-прес. – 2014. – 224 с.

14. Сучасні аспекти фармацевтичної практики в Україні: колективна монографія / Б.П. Громовик, А.В. Горілик, І.Я. Городецька [та ін.]; за наук. ред. Б.П. Громовика – Львів: Ліга-Прес, 2014. – 386 с.

15. Сучасні аспекти фармацевтичної практики в Україні: колективна монографія. Випуск 2 / Б.П. Громовик, .В. Бушуєва, А.В. Горілик, [та ін.]; за наук. ред. Б.П. Громовика. – Львів: Ліга-Прес, 2017. – 253 с.

16. Ткаченко Н. О. Соціальна відповідальність у професійній діяльності фахівців фармації : монографія / Н. О. Ткаченко; за науковою редакцією професора Б. П. Громовика. – Запоріжжя : Вид-во ЗДМУ, 2018. – 217 с.

17. Унгурян Л.М. Фармацевтична практика: логістичні, інформаційні, нейроекономічні та соціальні аспекти: монографія / Л.М. Унгурян, Б.П. Громовик. – Львів: Простір-М, 2016. – 155 с.

18. Фармацевтична допомога в геріатрії: прикладні аспекти: монографія / О.Є. Левицька, О.Р. Левицька, Б.П. Громовик, О.В. Парамощ. – Львів: Растр-7. 2014. – 154 с.

Informational sources

19. Законодавство України [Електронний ресурс]. – Режим доступу: <https://zakon.rada.gov.ua/laws>.

20. Нормативно-директивні документи МОЗ України [Електронний ресурс]. – Режим доступу: <http://mozdocs.kiev.ua/>.

21. Державний реєстр лікарських засобів України. [Електронний ресурс]. – Режим доступу: <http://www.drlz.com.ua/ibp/ddsites/all/shlist?opendocument>.

22. Compendium online. [Електронний ресурс]. – Режим доступу: <https://compendium.com.ua/bad/>.

23. Еженедельник «Аптека» [Електронний ресурс]. – Режим доступу: <https://www.apteka.ua/>.

24. Пошукова база ліків [Електронний ресурс]. – Режим доступу: <https://tabletki.ua/uk/>.

25. Пошукова база ліків [Електронний ресурс]. – Режим доступу: <http://likicontrol.com.ua/>.

26. Пошукова база Medline [Електронний ресурс]. – Режим доступу: National Library of Medicine <https://www.nlm.nih.gov/bsd/medline.html>.
27. Пошукова база Medscape [Електронний ресурс]. – Режим доступу: Medscape <https://www.medscape.com/pharmacists>.
28. Пошукова база Cochrane Library [Електронний ресурс]. – Режим доступу: Cochrane Library <https://www.cochrane.org/>.

11. Equipment, logistics and software of the discipline / course

Working curriculum for the discipline.
Multimedia support of lectures.
Abstracts of lectures on the discipline.
Methodical recommendations for practical classes of higher education students.
Methodical materials that provide independent work for graduates.
Test and control tasks for practical classes.
Questions and tasks for the final control.
Methodical recommendations for the teacher.
MISA training platform.
Online system of continuing pharmaceutical education AdFarm SA
Computer class for 16 workstations connected to the local network of the university with direct access to the Internet.

12. Additional information

Responsible for the educational process at the department - Associate Professor I.Ya. Horodetska. Scientific students' research group works at the department. Practical classes are held at Pekarska st., 75. *Website of the department*: <https://new.meduniv.lviv.ua/kafedry/kafedra-organizatsiyi-i-ekonomiky-farmatsiyi/>

Compiler of syllabus Horodetska I.Ya.,
Candidate of Pharmacy, Associate Professor (Signature)

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Doctor of Pharmacy, Professor (Signature)