SYLLABUS OF THE EDUCATIONAL COMPONENT

PHARMACEUTICAL INFORMATION for applicants for higher education of 5 year of study of educational program Pharmacy in specialty 226 Pharmacy, Industrial pharmacy field of knowledge 22 Healthcare for second (Master's) level of higher education

TEACHERS



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1. The name of higher education establishment and department: National University of Pharmacy, Department of Social Pharmacy.

2. Address of the department: Kharkiv, Valentynivska street, 4, 4th floor, phone 057-67-91-81.

3. Website of the department : http://socpharm.nuph.edu.ua

4. Information about teachers:

Volkova Alina Viktorivna – candidate of Pharmaceutical Sciences, Associate Professor, Head of the Department of Social Pharmacy. Experience of scientific and pedagogical activity – 14 years. Teaches educational components "Introduction to speciality", "Pharmaceutical law and legislation", "Social pharmacy", "Pharmaceutical Marketing and Management", "Academic Integrity". Research interests: socio-economic and regulatory aspects of pharmaceutical provision of the population.

Surikova Iryna Oleksandrivna – candidate of Pharmaceutical Sciences, Assistant of the Department of Social Pharmacy. Experience of scientific and pedagogical activity – 5 years. Teaches educational components:, "Pharmaceutical law and legislation", "Organization and economics of pharmacies", "Social pharmacy" "Pharmaceutical information". Research interests: regulatory and legal regulation of medical and pharmaceutical activities, the formation of the principles of social pharmacy in national practice.

Tereschenko Lubov Volodymyrivna – candidate of Pharmaceutical Sciences, Associate Professor. Experience of scientific and pedagogical activity – 9 years. Teaches "Organization and economics of

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pharmacies", "Social pharmacy". Research interests: socio-economic and regulatory aspects of pharmaceutical provision of the population.

5. Consultations take place in an online format according to the teachers' schedule posted on the department's website.

6. Brief summary of the educational component: The implementation of Pharmaceutical Information into the educational process is associated with the need to prepare future professionals in the field of information support for pharmaceutical activities, the organizational structure of the national pharmaceutical information system, communication processes as a key element in the transmission of pharmaceutical information, and the functioning of pharmaceutical information (modern information processing technologies) in pharmaceus. A pharmaceutical worker is obliged to understand the importance of pharmaceutical information as an integral part of the professional activities of practical pharmacy specialists and the awareness of the population.

7. The purpose statement of studying the educational component: formation of the foundations of modern information culture in students, their assimilation of the main theoretical approaches to the study of basic categories of pharmaceutical information, the formation of knowledge, skills and abilities in the organization of information support of pharmaceutical activities, providing future specialists with the opportunity to perform functional tasks in a high-quality manner responsibilities.

8. Competences in accordance with the educational program:

Soft- skills / General competences (GC):

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 9. Skills in the use of information and communication technologies.

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

SC 13. Ability to demonstrate and apply in practice communication skills, fun-damental principles of pharmaceutical ethics and deontology, based on the moral obligations and values, ethical standards of professional be-havior and responsibility in accordance with the Code of Ethics for Pharmaceutical Workers of Ukraine and WHO guidelines.

9. The program learning outcomes: (PLO):

PLO 2. To apply knowledge of general and professional disciplines in profes-sional activities.

PLO 4. To demonstrate the ability to independently search, analyze and synthe-size information from various sources and use these results to solve typ-ical and complex specialized tasks of professional activity.

PLO 7. To perform professional activities using creative methods and approaches.

PLO 9. To carry out professional activities using information technology, "In-formation Databases", navigation systems, Internet resources, software and other information and communication technologies.

PLO 12. To analyze the information obtained as a result of scientific research, summarize, systematize and use it in professional activities.

10. Status of the educational component: selective

11. Prerequisites of the educational component: "Introduction to the specialty".

12. The volume of the educational component: 3ECTS credits: 90 hours of classroom attendance, 12 of them are lectures, 18 hours are practical, 60 hours individual work.

13. Organization of training:

The format of teaching the educational component: conducting lectures and practical classes for a better understanding of the topic.

Content of the educational component:

Content module 1. Theoretical and applied principles of information use in pharmaceutical activity.

Topic 1. Theoretical foundations of information support of pharmaceutical activity

Topic 2. The organizational structure of the domestic pharmaceutical information system

Topic 3. Communication process as a key element of information transfer

Content module 2. Practical principles of information application in pharmaceutical activity.

Topic 4. Pharmaceutical information in pharmacies

Topic 5. Pharmaceutical information as a component of the professional activity of practical pharmacy specialists

Topic 6. Pharmaceutical information as a component of public awareness

Topic 7. Pharmaceutical information as a component of scientific activity in the pharmaceutical sector of healthcare

14. Forms and types of academic achievements supervision:

Forms and types of academic achievements supervision

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Progress supervision: oral survey, writing test tasks, solving situational (calculation) problems. For topics 1-7: the minimum number of points is 6, the maximum is 10.

Supervision of content modules: 2 content modules are provided. Content modules control includes 10 test questions: 5 tests – matching (1.5 points for the test); and 5 tests – multiple choice (1 point for 1 test) *Semester control form:* semester credit

Conditions for admission to the supervision of content modules: for admission to the supervision of content module 1, it is necessary to have a minimum number of points for the topics (classes) of content module 1 - 27 from 45, for the supervision of content module $2 - \min$ is 33 from 55.

Conditions for admission to semester supervision: a current rating of more than 60 points, absence of missed seminar classes, fulfillment of all requirements stipulated in the work program of the educational component. **15. Evaluation system of the educational component**

The evaluation system for the educational component.

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

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

Types of evaluation	Maximum number of points
	(% of the number of points per module
	- for content modules)
Module 1	
Content module 1: Theoretical and applied principles	45 (45 %)
of information use in pharmaceutical activity	
- evaluation of topics (1-3) (work in classes 1-3):	
work in classes (oral survey, writing test tasks,	
solving situational (calculation) problems);	
- supervision of content module 1 (writing test tasks,	
solving situational (calculation) tasks)	
Content module 2: Practical principles of information	55 (55 %)
application in pharmaceutical activity	
- evaluation of topics (4-7) (work in classes 5-8):	
work in classes (oral survey, writing test tasks,	
solving situational (calculation) problems);	
- supervision of content module 2 (writing test tasks,	
solving situational (calculation) tasks)	
Semester Supervision of Module 1	100

For topics 1-7: the minimum number of points is 6, the maximum is 10.

Distribution of points for each seminar class:

• Evaluation of theoretical knowledge (oral survey) – 5 points (50% of the grade for the class)

• Assessment of practical abilities and skills (solving practical situational tasks) - 5 points (50% of the grade) Evaluation of theoretical knowledge, practical skills and abilities takes place according to the following criteria

Assessment of theoretical knowledge		
Points (%)	Evaluation criteria	
more than	awarded to a higher education applicant who, when answering questions orally or in writing,	
75%	has demonstrated comprehensive, systematized, in-depth knowledge of the program material,	
	is able to competently interpret the obtained results; demonstrate knowledge of the main and	
	additional literature provided for at the level of creative use	
51% – 75%	is presented to the student of higher education, if during the oral or written answer to the	
	question, the student of higher education showed full knowledge of the program material provided for at the level of similar reproduction, but made some insignificant errors	
26% - 50%	issued if, during an oral or written answer to a question, the applicant of higher education	
	revealed insufficient knowledge of the main program material, to the extent necessary for	
	further study and work provided for by the program at the level of reproductive reproduction	
up to 25%	is issued if, during an oral or written answer to a question, the student of higher education	
	revealed serious gaps in knowledge of the basic material, made fundamental mistakes	

	Assessment of	practical skills and abilities:	
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Points (%)	Evaluation criteria
75%-100%	The practical task (situational task) was completed by the student of higher education
	independently without errors.
50%-75%	The practical task was completed independently, however, mistakes were made in
	calculations, principles of preparing multimedia materials, etc.
25%-50%	The practical task was completed independently, however, significant errors were made in
	calculations, principles of preparing multimedia materials, etc.
up to 25%	The student of higher education was unable to complete practical and situational tasks, did
	not issue a work journal.

Control of content modules (CM) is carried out at the last seminar classes for studying the topics of content modules. Only those applicants for higher education who have completed all types of work provided for in the curriculum (completed missed seminar classes, lectures, etc.) are admitted to the control.

Controls of content modules 1 and 2 are evaluated: minimum - 9, maximum - 15 points according to the following criteria

N⁰	Type pf work	Minimum	Maximum
1	Theoretical part:		
	5 comparison test questions (1 question -2 points)	6	10
	5 test questions with one correct answer (1 question -1 point)	3	5
	Total	9	15

The individual work of applicants for higher education is evaluated during the progress supervision and during the content module supervision

16. Academic policies of the educational component:

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 Pharmacy". Cheating during the evaluation of an applicant for higher education during supervision activities in practical (seminar, laboratory) clas-ses, supervision of content modules and the semester exam is prohibited (including the use of mo-bile devices). Abstracts must have correct text references to the used literature. The detection of signs of academic dishonesty in the student's written work is a reason for the teacher not to credit it.

Class attendance policy. An applicant for higher education is obliged to attend classes (POL "On the organization of the educational process of the National University of Pharmacy ") 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 debts. The comple-tion of missed classes by an applicant for higher education is carried out in accordance with the POL "Regulations on the completion of missed classes by applicants and the procedure for eliminating academic differences in the curricula of the National University of Pharmacy" in accordance with the schedule for working out missed classes established by the department. Increasing the rating and liquidating academic debts from the educational component is carried out by the applicants in ac-cordance with the procedure specified in the POL "On the procedure for evaluating the results of training of applicants for higher education at the National University of Pharmacy". 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 rea-sons are assessed at a lower grade - up to 20% of the maximum number of points for this type of work.

Policy on appeals of evaluation of the educational component (appeals). Applicants for higher educa-tion 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 final supervision of knowledge by applicants of higher education at the National University of Pharmacy".

The main reading	Methodological developments for classroom work (multimedia materials,	
suggestions	lecture texts), which are posted on the website of distance learning technologies	
	of the National Pharmaceutical University:	
Supplementary reading	1. Ilardo ML, Speciale A. The Community Pharmacist: Perceived Barriers and Patient-Centered Care Communication. Int J Environ Res Public Health.	

suggestions for in-	2020 Jan 15;17(2):536. doi: 10.3390/ijerph17020536. PMID: 31952127;	
depth study of the	PMCID: PMC7013626.	
educational	2. Vermeir P, Vandijck D, Degroote S, Peleman R, Verhaeghe R, Mortier E, et	
component	 al. Communication in healthcare: a narrative review of the literature and practical recommendations. International Journal of Clinical Practice 2015;69(11):1257-67 3. WHO. (2017). WHO Strategic Communications Framework for effective communications. Отримано з https://cdn.who.int/media/docs/default-source/documents/communication-framework.pdf?sfvrsn=93aa6138_0 	
Current electronic	1. https://compendium.com.ua/uk/ – довідник лікарських засобів	
information	2. https://www.apteka.ua – офіційний сайт щотижневика «Аптека»	
resources	3. https://www.fip.org/ – офіційний сайт Міжнародної фармацевтичної	
(magazines,	федерації	
websites) for in-		
depth study of the	4. https://www.who.int - офіційний сайт Всесвітньої організації охорони	
educational	здоров'я	
component	5. https://zakon.rada.gov.ua – офіційна інформаційно-пошукова система	
	«Законодавство України»	
	6. nuph.edu.ua – офіційний сайт Національного фармацевтичного	
	університету	
	7. www.moz.gov.ua – офіційний сайт Міністерства охорони здоров'я	
Moodle distance		
	https://pharmel.kharkiv.edu/moodle/course/view.php?id=4063	
learning system		

18. Technical and computer soft: computer for testing, multimedia, screen.