SYLLABUS OF THE EDUCATIONAL COMPONENT

Basics of rational nutrition

for higher education students of the 5th year of full-time education (2023/2024) ((4.10д) years of age for foreign citizens studying English) educational program «Pharmacy» specialty «226 Pharmacy, industrial pharmacy» field of knowledge «22 Healthcare» the second (master's) level of higher education

TEACHERS



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4. Information about teachers:

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- **5. Consultations:** *online, take place every Wednesday from 12.05 to 12.50*
- **6. Brief summary of the educational component:** Basics of rational nutrition a selective educational component for students of higher education, 5th year of full-time education (4.10д), educational program «Pharmacy», specialty «226 Pharmacy, industrial pharmacy», field of knowledge «22 Health», the second (master's) level of higher education. The educational process is organized according to the credit-module system. The program of the discipline meets the requirements of the "Recommendations for the development of educational programs of educational disciplines" (Order of the Ministry of Health of Ukraine No. 492 dated 12.10.2004).

The amount of study load of students of higher education is described in ECTS credits – credit credits, which are credited to students of higher education upon successful assimilation of the relevant part of the discipline. The selective educational component "Basics of rational nutrition" contains a set of information necessary for the expansion of theoretical training and practical activities of the future specialist, allows to teach the correct attitude to nutrition and health, reveals the importance and role of nutrition in the life processes of the human body.

7. The purpose of teaching the educational component: formation of a system of theoretical knowledge, practical skills and skills of higher education students regarding the organization of the nutrition system of a healthy and sick person at different age stages of his life through the application of modern scientific provisions of Nutriciology and assessment of the nutritional composition of food products used for prevention and population treatment.

${\bf 8.\ Competences\ in\ accordance\ with\ the\ educational\ program:}$

Soft-skills / General competences (GC):

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

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

PC 16. Ability to organize and conduct the procurement of medicinal plant raw materials in accordance with the rules of Good Practice of Cultivation and Collection of Raw Materials of Plant Origin (GACP), as a guarantee of the quality of medicinal plant raw materials and medications based on it. Ability to predict and calculate ways to solve the problem of conservation and protection of thickets of wild medicinal plants, in accordance with current

legislation.

PC 20. Ability to develop methods for quality control of medications, including active pharmaceutical ingredients, medicinal plant raw materials and excipients using physical, chemical, physicochemical, biological, microbiological, pharmacotechnological and pharmacoorganoleptic control methods.

9. The program learning outcomes: (PLO):

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

PLO 28. To organize and conduct rational procurement of medicinal plant raw materials. To develop and implement measures for the protection, reproduction and rational use of wild species of medicinal plants.

- 10. Status of the educational component: selective.
- **11. Prerequisites of the discipline:** is based on the knowledge obtained by students of higher education during the study of normal and pathological human physiology, organic chemistry, biological chemistry.
- **12.** The volume of the educational component: 3.0 ECTS credits (90 h): 8 hours lectures, 24 hours practical classes, 58 hours of independent work.

13. Organization of training:

Teaching format of the educational component: lectures, practical classes.

Content of the educational component:

Content module 1. Nutritional foundations of rational and medical nutrition

- *Topic 1.* General concepts of energy metabolism.
- *Topic 2.* The main provisions of rational nutrition.
- *Topic 3.* The concept of medical nutrition, its types. Alternative types of food.
- *Topic 4.* The concept of food poisoning and its prevention
- Topic 5. Basics of nutrition science

Content module 2. Evaluation of the nutritional composition of food products that form the basis of medical nutrition, rational nutrition of people of different sexes, ages and types of activities

- Topic 6. Nutrient composition of food products in various nosological forms of diseases
- Topic 7. Basics of rational nutrition for pregnant women and women who have breastfed children
- Topic 8. Basics of rational nutrition for children and adolescents
- **Topic 9.** Basics of rational nutrition for the elderly
- *Topic 10.* Basics of rational nutrition for athletes
- Topic 11. Peculiarities of nutrition of workers in production with harmful working conditions

14. Forms and types of academic achievements supervision:

Forms and types of academic achievements supervision

Current control of theoretical and practical knowledge in the form of an oral, written and test survey using standardized methods for diagnosing knowledge, abilities and skills is carried out at each laboratory session in accordance with the specific goals of the topic and during the individual work of the teacher for topics that are not included in the structure of the lesson and are developed by the student of higher education independently.

Control of content modules - control of theoretical knowledge in the form of an oral, written and test survey of applicants for higher education, as well as practical skills in determining the identity and benignity of MPM. Control refers to knowledge and skills, both acquired in classes, and objects and topics developed independently by students of higher education.

Form of control - semester credit.

15. Evaluation system of 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 assessment	Maximum number of points (% of the number of points per module - for content modules
Module 1	
Content module 1: • assessment of topics (1-5) (work in classes 1-5): work in classes (oral survey, writing input controls, solving logical problems); • control of content module 1 (solving theoretical, practical and logical tasks)	50 (50 %)
Content module 2: • assessment of topics (6-11) (work in classes 6-11): work in classes (oral survey, writing input controls, solving logical problems); • control of content module 2 (solving theoretical, practical and logical tasks)	50 (50 %)
Semester control of the module	100

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

16. Academic policies of the educational component:

Academic Integrity Policy. It is based on the principles of academic integrity stated in the Provisions of the document "On measures to prevent cases of academic plagiarism at the National University of Ukraine". Writing off when evaluating the success of a student of higher education during control activities in practical (seminar, laboratory) classes, control of content modules and semester exams is prohibited (including using mobile 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 enroll it.

Class attendance policy. An applicant for higher education is obliged to attend classes (Provisions of the document "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 completion of missed classes by an applicant for higher education is carried out in accordance with the Provisions of the document "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 accordance with the procedure specified in the Provisions of the document "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 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 evaluation of the educational component (appeals). Applicants for 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 Provisions of the document "Regulations on appealing the results of the final supervision of knowledge by applicants of higher education at the National University of Pharmacy".

17. Information and educational and methodical support of the discipline:

The main reading	1. Sultaniyazovich Y. M., Shamshaddinovna A. Z., Alisherovna S. G. Definition of a
suggestions	Rational Diet Woman's Nutrition during Pregnancy. World Bulletin of Public Health.
	2023. № 18. P. 76-81.
	2. Monte C. M. G., Giugliani E. R. J. Recommendations for the complementary feeding
	of the breastfed child. <i>Jornal de pediatria</i> . 2004. № 80. P. s131-s141.

	2. Nutrition related health behaviours and presidence of assessible and also its assessment
	3. Nutrition-related health behaviours and prevalence of overweight and obesity among
	Polish children and adolescents / Wojtyla-Buciora P. et al. <i>Annals of Agricultural and</i>
	Environmental Medicine. 2013. № 20 (2).
	4. Rational nutrition of modern human / Lupu L. D. M. et al. 4th International
	multidisciplinary scientific conference on social sciences and arts sgem. 2017. P. 573-
	578.
	5. Organization Of Rational Nutrition of Athletes in Training and Competitive
	Activities // Saparbaevna R. R. et al. Specialusis Ugdymas. 2022. № 2 (43). P. 3566-
	3568.
Supplementary	1. Early breastfeeding experiences of adolescent mothers: a qualitative prospective
reading suggestions	study / Smith P. H. et al. <i>International breastfeeding journal</i> . 2012. № 7. P. 1-14.
for in-depth study of	2. Pomohaibo K., Harmanpreet S. The role of the family, educational institutions and
the educational	primary health care in the organization of rational nutrition and the prevention of
component	overweight in children and adolescents . Громадське здоров'я в Україні: проблеми та
	способи їх вирішення. 2022. Р. 219.
	3. Assessment of nutritional habits and preferences among secondary school students
	/ Duma-Kocan P. et al. <i>Roczniki Państwowego Zakładu Higieny</i> . 2017. № 68 (1).
	4. Important determinants to take into account to optimize protein nutrition in the
	elderly: solutions to a complex equation / Dardevet D. et al. <i>Proceedings of the Nutrition</i>
	Society. 2021. № 80 (2). P. 207-220.
	5. Ermatova S. U. The role of nutrition in the development of athletes ability. <i>Current</i>
	research journal of pedagogics. 2021. № 2 (10). P. 86-90.
	6. Zinovyeva E., Balynskaya N., Koptyakova S. Features of sanitary and
	epidemiological population welfare in monoprofile cities within the conditions
	oftechnogenic environment. Padua Research Archive-Institutional Repository. 2019. P.
	54.
	7. The effectiveness of worksite nutrition and physical activity interventions for
	controlling employee overweight and obesity: a systematic review / Anderson L. M. et
	al. American journal of preventive medicine. 2009. № 37 (4). P. 340-357.
	8. Fieldhouse P. Food and nutrition: customs and culture. Springer, 2013.
	9. ESPEN guidelines on definitions and terminology of clinical nutrition / Cederholm
	T. et al. <i>Clinical nutrition</i> . 2017. № 36 (1). P. 49-64.
Current electronic	Website of the Department of Pharmacognosy and Nutriciology –
information	www.cnc.nuph.edu.ua
resources	2. Website of the NUPh library – http://lib.nuph.edu.ua
(magazines, websites)	3. Electronic archive of the NUPh – http://dspace.nuph.edu.ua
for in-depth study of	4. Center for Distance Technologies of the National Academy of Sciences of Ukraine –
the educational	pharmel.Kharkiv.edu
component	5. NUPh. Online tests – http://tests.nuph.edu.ua
	6. Vernadsky National Library of Ukraine – http://www.nbuv.gov.ua 7. V.G. Korolenko Kharkiv State Scientific Library – http://korolenko.kharkov.com
Diatomos logarias	7. V.O. KOLOICIKO KIIAIKIV State Scientific Liulary – http://koloiciko.kiiaikov.com
Distance learning	https://pharmel.kharkiv.edu/moodle/course/view.php?id=5091
system Moodle	

18. Technical support and software of the educational component: computers for testing, multimedia device, screen.