

**SILABUS EDUCATIONAL COMPONENT
EPIDEMIOLOGY OF DISEASES**
(the name of the educational component)

for higher education students 3 course of the day forms of education (4,10 p.n.)

educational program «Pharmacy»

(educational program name)

Specialty «_226 Pharmacy, Industrial pharmacy»

(code number, specialty name)

Knowledge fields «22 Health Care»

(code number, name of the field of knowledge)

Master level of higher education

(name of higher education level)

TEACHER



**Filimonova
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- 1. Name of the institution of higher education and department:** National University of Pharmacy, Department of Microbiology, Virology and Immunology.
- 2. Address:** Kharkiv, street Kulykivska, 12, 3rd floor, tel. 057-706-30-67.
- 3. Website:** <http://microbiology.nuph.edu.ua/>
- 4. Information about teacher:**

Filimonova Nataliia Igorivna

Doctor of Medical Sciences, Professor, Head of the Department of Microbiology, Virology and Immunology of the National University of Pharmacy. Experience of scientific activity - 37 years, experience of scientific pedagogical activity - 36 years. She teaches courses: "Microbiology, virology and immunology with microbiological diagnostics", "Microbiology with the basics of epidemiology", "Infectious diseases", "Epidemiology of diseases", "Tropical infections", "Epidemiology and tuberculosis" with evaluation of research results. Research interests: bacteriology, virology, pathophysiology, immunology, infectious diseases.

- 5. Consultations:** These are conducted on a daily basis by the supervisor at the Department of Microbiology, Virology and Immunology.
- 6. Brief annotation:** the academic discipline "Epidemiology of Diseases" is an elective discipline for the second (master's) level in the specialty "226 Pharmacy. Industrial Pharmacy". Assessment form - credit.
- 7. The purpose of the discipline:** the purpose of teaching the discipline "Epidemiology of Diseases" is to train specialists in the field of medicine with a significant amount of theoretical and practical knowledge regarding the etiological factors of infectious and somatic diseases, methods of their transmission, the pathogenesis of diseases caused by them, methods of their laboratory diagnosis, treatment and prevention and provision of professional knowledge and practical skills of modern principles of high-quality, professional and effective antiepidemic work in the foci of infection.
- 8. Competence in accordance with the educational program:**

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

FC 1. Ability to carry out sanitary-educational work among the population with the purpose of prevention of widespread diseases, prevention of dangerous infectious, viral and parasitic diseases, and also to promote timely detection and maintenance of inclination to treatment of these diseases according to their medical-biological characteristics and microbiological features.

9. Program results of training (PRT):

PRN 13. Conduct sanitary-educational work in professional activity in case of outbreak of flashes of infectious, viral and parasitic diseases.

10. Status of educational component: Elective.

11. Prerequisites of the discipline: Mastering the discipline "Epidemiology of diseases" is based on the study of Philosophy, "Microbiology, Virology and Immunology with microbiological diagnostics"; "Clinical Microbiology"; "Clinical laboratory diagnostics", "Biological chemistry", "Normal anatomy", "Pathological anatomy", "Human physiology" and "Pathological physiology".

12. Volume of educational component:

Number of ECTS credits	Number of hours per educational component			
	general	lectures	practical lessons	independent work
3,0	90	9	21	60

13. Organization of training:

Educational component format:

Content of educational component:

MODULE

Content module 1. *The concept of Epidemiology. Epidemiological surveillance of infectious diseases.*

Epidemiological research. Fundamentals of specific prophylaxis of infectious diseases. Sanitary protection of state borders. Epidemiological characteristics of bacterial and viral infections.

Topic 1: The concept of Epidemiology. The subject and methods of epidemiology. Epidemiological surveillance of infectious diseases. Epidemiological research

Topic 2: Fundamentals of specific prophylaxis of infectious diseases. Vaccination calendar. Vaccine quality criteria. Side effects of vaccines. Vaccine quality criteria. Side effects of vaccines..

Topic 3: Sanitary protection of state borders against the importation of infectious diseases.

Topic 4: Epidemiological characteristics of bacterial and viral intestinal infections (typhoid fever, salmonellosis, hepatitis A, poliomyelitis). Preventive and anti-epidemic measures. The concept of zoonotic infections (anthrax, tularemia, campylobacteriosis)..

Topic 5: Epidemiological characteristics of bacterial and viral infections of the respiratory tract (diphtheria, meningococcal infection, whooping cough, scarlet fever, influenza, measles, rubella, chickenpox). Preventive and anti-epidemic measures..

Topic 6: Epidemiological characteristics of viral blood infections. Preventive and anti-epidemic measures.

Topic 7: Nosocomial infections. Preventive and anti-epidemic measures. Quarantinic infections. Preventive and anti-epidemic measures

14. Types and forms of control:

Types and forms of control:

Current control: oral questioning, test tasks, solution of situation problems.

Control of content modules: Oral questioning, test tasks.

Semester control form: Semester credit.

Conditions for the control of the content modules: To allow the control of the content module, a minimum number of points is required for the subject of the content module, and no hard-working passes of practical lessons are required.

Conditions of admission to the semester control: Current rating is more than 60 points, absence of unworked passes of practical, fulfillment of all requirements, which are provided by the working program of educational component.

15. Educational component assessment system:

Educational component assessment system::

The results of the semester control in the form of a semester check are estimated at 100-point, non-differentiated scale ("counted", "not counted") and at the ECTS scale.

The educational component is calculated according to the following ratio:

Types of evaluation	Maximum number of points (% from the number of points per module - for content modules)
Module 1	
<i>The concept of Epidemiology. Epidemiological surveillance of infectious diseases. Epidemiological research. Fundamentals of specific prophylaxis of infectious diseases. Sanitary protection of state borders against the importation of infectious diseases. Epidemiological characteristics of bacterial and viral intestinal and respiratory tract infections. Preventive and anti-epidemic measures. Epidemiological characteristics of viral blood infections. Hospital and Quarantine infections.</i> - assessment of topics (1-7) (work at lessons 1-7): work at lessons (oral survey, preparation of test tasks);	100 (100 %)
- control of the content module 1 (preparation of test tasks, oral survey).	
Semester control from module 1	100

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

16. Policies of the educational component:

Policy on academic integrity. It is based on the principles of academic integrity, given in the POL "On measures to prevent cases of academic plagiarism in NUPh". Cheating when assessing the progress of a higher education applicant during control measures in practical classes, control of content modules and semester exams is prohibited (including using mobile devices). Abstracts must have correct text references to the literature used. Detection of signs of academic dishonesty in the written work of the student is the basis for its non-acceptance by the teacher.

Policy on attendance. The applicant for higher education is obliged to attend classes (POL "On the organization of the educational process of NUPh") according to the schedule (<https://nuph.edu.ua/rozklad-zanyat/>), to adhere to ethical standards of conduct.

Policy on deadlines, working out, rating increase, elimination of academic debt. Working out of missed classes by a higher education applicant is carried out in accordance with the Regulations "Regulations on working out of missed classes by students and the procedure for eliminating academic differences in curricula at NUPh" in accordance with the schedule of working out of missed classes established at the department. Raising the rating and elimination of academic debt on the educational component is carried out by applicants for education in accordance with the procedure specified in the Regulations "On the procedure for assessing the results of higher education applicants in NUPh". Applicants for higher education are obliged to comply with all deadlines set by the department for the implementation of types of written work on the educational component. Works that are submitted late without valid reasons are evaluated at a lower grade - up to 20% of the maximum number of points for this type of work.

Policy on appealing the assessment of the educational component (appeals). Higher education applicants have the right to appeal (appeal) the assessment of the educational component received during the control measures. Appeals are made in accordance with the Regulations on Appealing the Results of Semester Control of Knowledge of Higher Education Applicants at NUPh.

7. Information and educational and methodological support of the discipline:

Required reading	Infection diseases and epidemiology: synopsis of lectures to laboratory classes. / N. I. Filimonova, O.G.Geyderich.- Kharkiv: NUPh, 2022. - 128 p.
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Additional literature for in-depth study of the educational component	<p>Infectious diseases [Text] : textbook / O. A. Holubovska [et al.] ; ed. O. A. Holubovska. —Kyiv : Medicine, 2018. — 664 p. : il. — Approved by the Ministry of Education and Science of Ukraine (letter No 1/11-8095, 28 May 2012). Approved by the Ministry of Health of Ukraine (the letter No 23-01-8/130, 15 June 2012). — Bibliogr.: p. 655-660. — Index: p. 661-662. — ISBN 978-617-505-727-8</p> <p>Vinograd, N.O. Zagalna Epidemiology: Navch. posib. for stud. wish. honey. navch. prl. IV level of accreditation / N.O. Vinograd, Z.P. Vasilishin, L.P. Kozak. - 3-te type., Rep. that special stage. - Kiev: Medicine, 2014. -- 200 p.</p> <p>Special Epidemiology: the chief guide for students / N.O. Vinograd, Z.P. Vasilishin, L.P. Kozak. -Kiev: "Medicine", 2015.- 343p.</p>
Actual electronic information resources (journals, websites, etc.) for in-depth study of the educational component	<p>https://www.infobooks.org/pdfview/8650-epidemiology-glossary-northwest-center-for-public-health-practice/ <i>Epidemiology Glossary Northwest Center for Public Health Practice Source: Northwest Center for Public Health Practice</i></p> <p>https://www.infobooks.org/pdfview/8648-basic-epidemiology-r-bonita-r-beaglehole/ <i>Basic epidemiology R bonita, R beaglehole Source: World Health Organization (WHO)</i></p> <p>https://www.umj.com.ua/en/ <i>Ukrainian Medical Journal</i></p>
	<p>http://www.who.int/en/ <i>World health organization</i></p> <p>https://www.cdc.gov <i>Centers for diseases control and prevention</i></p>
Moodle distance learning system	<p>https://pharmel.kharkiv.edu/moodle/course/view.php?id=3506</p>

18. Technical and educational component software: *Computers for testing, multimedia device, screen.*