

PRIVATE HIGHER EDUCATIONAL INSTITUTION  
"INTERNATIONAL ACADEMY OF ECOLOGY AND MEDICINE"  
Department of Social Medicine and Preventive Medicine

SYLLABUS  
EDUCATIONAL DISCIPLINE

Epidemiology

*LEVEL OF HIGHER EDUCATION Second (master's) level*

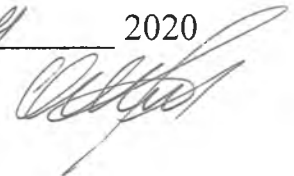
*DEGREE OF HIGHER EDUCATION Master*

*FIELD OF KNOWLEDGE 22 Healthcare*

*SPECIALTY 221 Dentistry*

Considered and approved  
at a meeting of the Department of Social Medicine  
and preventive medicine

Protocol № 1 from "01" 04 2020



Kyiv 2020

<b>1. General information</b>	
<b>Subjects</b>	Epidemiology
<b>Teacher (s)</b>	Tymoshenko S.
<b>Teacher's contact phone number</b>	-
<b>Teacher's e-mail</b>	Timoshenko@ses.gov.ua
<b>Discipline format</b>	Normative discipline
<b>The scope of discipline</b>	22
<b>Link to the distance learning site</b>	Timoshenko@ses.gov.ua
<b>Consultations</b>	None under the program
<b>2. Discipline abstract</b>	
<p>Epidemiology is a science of the causes of the emergence, distribution of epidemics and measures to prevent them and combat them. The epidemic is a massive impression of the entire population or its separate groups of infectious disease. The cause of epidemics is infectious diseases, so epidemiology is given as epidemiology of infectious diseases - science on the emergence and dissemination of the epidemiological process, the method of its restriction and liquidation.</p> <p>The most important sign of interdisciplinary activity "Epidemiology" is its connection with medical disciplines :: Infectious diseases, microbiology, virology, immunology, hygiene, sanitation, medical biology, medical geography, medical statistics, pediatrics, gerontology, etc.</p>	
<b>3. The purpose and objectives of the discipline</b>	
<i>The purpose of studying the discipline "Epidemiology":</i>	
<ul style="list-style-type: none"> <li>• Formation of knowledge on general patterns of occurrence, distribution, combating the spread and prevention of epidemics;</li> <li>• Formation of knowledge on the development and implementation of anti-epidemic measures to combat epidemics, providing biological safety rules among the population.</li> </ul> <p>Tasks of discipline "Epidemiology":</p> <ul style="list-style-type: none"> <li>- Knowledge of the main provisions of Science "Epidemiology"</li> <li>- Forming practical skills in preventing the emergence, distribution and elimination of epidemic diseases</li> </ul>	
<b>4. Results of training (competence)</b>	
As a result of studying the discipline "Epidemiology" students should:	
<u>KNOW:</u>	
<ul style="list-style-type: none"> <li>➤ basic concepts (positions) of science "epidemiology";</li> <li>➤ mechanism of occurrence of an epiproces, its structure;</li> <li>➤ definition and features of parasitism and parasitic system;</li> <li>➤ Infectious (parasitic) diseases, specifics and structural classification of infectious diseases;</li> <li>➤ particularly dangerous and common infectious diseases;</li> <li>➤ determination of the epidemic cell, measures for diagnostics, examination of the epidemic cell and analysis of the epidemic situation;</li> <li>➤ Prerequisites and holders Complicate epidemia, prophylactic and anti-epidemic measures.</li> </ul>	
<u>BE ABLE TO:</u>	
<ul style="list-style-type: none"> <li>✓ to determine the features of the epidemic process, its manifestation, nature of leakage;</li> <li>✓ carry out an epidemiological examination of the epidemic cell;</li> <li>✓ Conduct a donor and transponder diagnosis.</li> <li>✓ carry out epidemiological analysis and epidemiological diagnostics.</li> <li>✓ To determine and evaluate the preconditions and holders of the epidemic situation, the conditions for eliminating its complications.</li> <li>✓ Make a plan for conducting anti-epidemic measures, depending on the nature of the epidoprocess of infectious disease.</li> <li>✓ carry out epidemiological supervision and epidemiological control.</li> <li>✓ Conduct prophylactic measures: disinfection, disinsection, deratation, sterilization (methods of conducting)</li> </ul>	
<u>MANDATORY SKILLS FOR FUTURE PRACTICE</u>	
<ul style="list-style-type: none"> <li>➤ Estimate the epidemic situation in a particular territory.</li> <li>➤ Develop measures to eliminate the consequences of the complication of the epidemic situation in the territory and in the epidemic cell.</li> <li>➤ Develop a set of preventive measures to prevent the emergence and distribution of infectious diseases, depending on the nature of the epidemic process.</li> </ul>	
<b>5. Organization of study of discipline</b>	
<i>Course volume</i> -	
<b>Type of occupation</b>	<b>Total number of hours</b> 22
Lecture	0

Practical training		20	
Independent work		2	
<i>Signs of course</i>			
Semester	Specialty	Course (year of study)	Normative / selective
I	221 Dentistry	4	Normative
<i>Course topics</i>			
Theme, plan		literature	Estimate on weight
Theme 1. Epidemiology, epidemic, pandemic, epidemic process, their definition. The source of the pathogen of infection, the transmission mechanism, a susceptible organism.		1-4,7	15
Theme 2. Parasitism, its types, basic law of parasitism. Types of infections depending on the reservoir of the pathogen		1-4,7	15
Theme 3. The doctrine of an epidemic (natural) cell, natural-averaged infectious diseases, survival of the pathogen in the objects of the natural environment.		1-4,7	15
Theme 4. Ecosystem and sice-system level of the epidemic process. Epidemiological classification of infectious diseases.		1-4,7	15
Theme 5. Epidemiological supervision and control, purpose and tasks of epidemiological supervision.		1-4,7	15
Theme 1. Epidemiological analysis, donor and transponder diagnostics, preconditions and holders complications of the epidemic situation.		1-4,7	20
Theme 2. Preventive measures. Immunoprophylaxis.		1-4,7	20
Theme 3. Epidemiological examination of the epidemic cell		1-4,7	20
Theme 4. Anti-epidemic measures (disinfection, sterilization, disinsection, deratization),		1-4,7	20
<b>Final control - Diff. test</b>		1-7	20

### 6. Course evaluation system

#### General Course Assessment System

The maximum number of points that a student can score for current educational activities for admission to the PC is 120 points.

The minimum number of points that a student must score for the current academic activity for admission to the exam is 72 points. The calculation of the number of points is based on the grades obtained by the student on the traditional (national) scale during the study of the discipline during the semester, by calculating the arithmetic mean (CA), rounded to two decimal places.

Assessment of students' independent work. Students' independent work, which is provided by the topic of the lesson along with the classroom work, is assessed during the current control of the topic in the relevant lesson. Assimilation of topics that are submitted only for independent work is checked during the final module control.

**Table 1. Conversion of the average grade for current activities in a multi-point scale (for disciplines that end with an exam (differentiated credit))**

4-point scale	120-point scale	4-point scale	120-point scale	4-point scale	120-point scale	4-6point scale	120-point scale
5	200	4,47	179	3,94	158	3,42	137
4,97	199	4,45	178	3,92	157	3,4	136
4,95	198	4,42	177	3,89	156	3,37	135
4, 2	197	4,4	176	3,87	155	3,35	134
4,9	196	4,37	175	3,84	154	3,32	133
4,87	195	4,35	174	3,82	153	3,3	132
4,85	19	4,32	173	3,79	152	3,27	131
4,82	193	4,3	172	3,77	151	3,25	130
4,8	192	4,27	171	3,74	150	3,22	129
4,77	191	4,24	170	3,72	149	3,2	128
4,75	190	4,22	169	3,7	148	3,17	127

4,72	189	4,19	168	3,67	147	3,15	126
4,7	188	4,17	167	3,65	146	3,12	125
4,67	187	4,14	166	3,62	145	3,1	124
4,65	186	4,12	165	3,6	144	3,07	123
4,62	185	4,09	164	3,57	143	3,05	122
4,6	184	4,07	163	3,55	142	3,02	121
4,57	183	4,04	162	3,52	141	3	120
4,55	182	4,02	161	3,5	140	Less 3	Not enough
4,52	181	3,99	160	3,47	139		
4,5	180	3,97	159	3,45	138		

**The maximum number of points that a student can score is 200 points, the minimum number of points is 120 points.**

The grade "passed" is given to a student who worked systematically during the semester, showed sufficient knowledge of the study material, performed the tasks provided by the program, showed solid knowledge of the discipline and is able to update them independently during further study.

The grade "not credited" is given to a student who did not show sufficient knowledge of the basic program material, made fundamental mistakes in performing the tasks provided by the program, does not have the skills of independent work.

#### Assessment of individual student tasks

Points for individual tasks are awarded to the student only if they are successfully completed and defended.

The number of points awarded for different types of individual tasks depends on their scope and significance, but not more than 10-12 points. They are added to the amount of points earned by the student in the classroom during the current academic activity.

#### Assessment of students' independent work

Students' independent work, which is provided by the topic of the lesson along with the classroom work, is assessed during the current control of the topic in the relevant lesson.

The minimum number of points that a student must score when studying the course - 120. The maximum number of points that a student can score for the current success in the study of this discipline - 200.

Practical training	Module 1
Classroom work (Content module 1)	
T 1-9	Amount - 200 (The maximum number of points that a student can score for the current educational activity, the minimum is 120 points).
Control work	20
Test	10
Working in pairs	5
Abstract	10-12
Conditions of admission to the final control	Semester control is provided in the form of credit. Provides a final grade on a 200-point scale as the sum of grades for the current control of knowledge (oral examination, tests, examination of abstracts), the results of the content module.

#### 7. The policy of studying the discipline

The organization of the educational process is carried out with the use of the European Credit Transfer System (ECTS) to assess student performance. The points gained in the current survey, independent work and points of the final control are credited. This must take into account the student's presence in class and his activity during practical work. Inadmissible: absences and late classes; use of a mobile phone, tablet or other mobile devices during the lesson (except for the cases provided by the curriculum and methodical recommendations of the teacher); copying and plagiarism; untimely performance of the task, the presence of unsatisfactory assessments and more submitted theoretical and practical material.

Senior Lecturer of the Department  Tymoshenko S.