

MINISTRY OF HEALTH OF UKRAINE  
DANYLO HALYTSKY LVIV NATIONAL MEDICAL UNIVERSITY

## SYLLABUS

### EDUCATIONAL PROGRAM OF DISCIPLINE

### "HEALTH CARE ORGANIZATION, INCLUDING WORK OF THE SURGICAL SERVICE"

(content module 3 «Organization of health care», content module 4 «Economics  
of health care»)

SB 3.2.5.2

Individual professional course

«Surgery»

preparation of the 6-year students of the second (master`s) level of higher education,  
branch of knowledge 22 "Health care",  
specialty 222 "Medicine"



<b>1. General information</b>	
Faculty	Foreign Students
Educational program	22 "Health care", specialty 222 "Medicine, full-time
Academic year	2023-2024
Name of discipline, code	"Health care organization, including work of the surgical service" (content module 3 «Organization of health care», content module 4 «Economics of health care») SB 3.2.5.2 <a href="https://new.meduniv.lviv.ua/kafedry/kafedra-sotsialnoyi-medytsyny-ekonomiky-ta-organizatsiyi-ohorony-zdorov-ya/">https://new.meduniv.lviv.ua/kafedry/kafedra-sotsialnoyi-medytsyny-ekonomiky-ta-organizatsiyi-ohorony-zdorov-ya/</a>
Department	Department of social medicine, economics and organization of health care Address: Zelena, 12 tel. +38 032 276-81-67 e-mail: kaf_socmed@meduniv.lviv.ua
Head of the department	Associate professor Taras Gutor taras_gutor@ukr.net
Year of study	6th year of study
Term	11th or 12th terms
Type of discipline / module	Selective
Teachers	Associate Professor Taras Gutor taras_gutor@ukr.net Associate Professor Oksana Kovalska oksanaromkov@ukr.net Assistant of the department Zoryana Mysak zoryana.mysak@ukr.net Assistant of the department Natalia Timchenko timchenkonataliaf@ukr.net Assistant of the department Natalia Zarembo natalyazarembo@gmail.com Assistant of the department Irina Gupalo irahup@gmail.com
Erasmus	no
The person responsible for the syllabus	Assistant Natalia Timchenko timchenkonataliaf@ukr.net
Number of ECTS credits	2,5 credits
Number of academic hours	75 hours (36 hours of practical classes, 39 hours of self-guided study of students)
Language of study	English
Information on consultations	Consultations - according to the schedule for the course once a week from 2.30 p.m. till 4.00 p.m.
Address, telephone and regulations of the clinical base, office	Clinical base is not provided
<b>2. Short description to the course</b>	
Academic discipline "Health care organization, including work of the surgical service" (content module 3 «Organization of health care», content module 4 «Economics of health care») involves mastering the legal and regulatory and accounting documentation on the organization of health care, preventive measures of future doctors, taking into account the possible impact on the health of the population of factors of various origins in the development of comprehensive medical and social measures and effective management decisions.	

### 3. The purpose and objectives of the course

**1. The purpose** of the course "Health care organization, including work of the surgical service" (content module 3 «Organization of health care», content module 4 «Economics of health care») mastering the necessary knowledge, skills and acquisition of competencies for exploration/research, analysis and assessment of population's health, quality of care and the correctness of accounting records, which will develop from the standpoint of evidence-based medicine recommendations to prevent and eliminate the harmful effects influence of health factors population, make effective management decisions.

#### **2. Learning objectives:**

- to be able to fill the main accounting medical records and to analyze reporting forms;
- to be able to apply the basic methods of statistical analysis to identify and assess the health condition of population;
- to be able to identify and interpret health indicators of population health;
- to be able to identify and analyze the impact of key factors that contribute to public health;
- to be able to analyze the structure, staff and activities of different types of health care institutions that provide primary, secondary and tertiary medical-preventive care;
- to evaluate the effectiveness of the organization of providing primary, secondary and tertiary care to various contingents of the population;
- to be able to develop measures to improve the organization and operation of health facilities of different levels providing medical-preventive care;
- to be able to determine the procedure for medical and social examination of earning capacity in the work of various health care institutions;
- to develop management decisions aimed at strengthening and maintaining the health of the population and improving the quality of medical care.

#### **3. Competences and learning outcomes of the discipline:**

##### **General competences (GC):**

GC-1 – Ability to abstract thinking, analysis and synthesis.

GC-2 – Ability to learn and master modern knowledge.

GC-3 – Ability to apply knowledge in practical situations.

GC-4 – Knowledge and understanding of the subject area and understanding of professional activity.

GC-5 – Ability to adapt and act in a new situation.

GC-6 – Ability to make informed decisions.

GC-7 – Ability to work in a team.

GC-8 – Ability to interpersonal interaction.

GC-9 – Ability to communicate in a foreign language.

GC-10 – Ability to use information and communication technologies.

GC-11 – Ability to search, process and analyze information from various sources.

GC-12 – Definiteness and perseverance in terms of tasks and responsibilities.

GC-13 – Awareness of equal opportunities and gender issues.

GC-14 – The ability to exercise their rights and responsibilities as a member of society, to be aware of the values of civil (free democratic) society and the need for its sustainable development, the rule of law, human and civil rights and freedoms in Ukraine.

GC-15 – Ability to preserve and multiply moral, cultural, scientific values and achievements of society based on understanding the history and patterns of development of the subject area, its place in the general system of knowledge about nature, society and in the development of society, techniques and technologies. active recreation and leading a healthy lifestyle, use different types and forms of physical activity for active recreation and a healthy lifestyle-

##### **Special (professional, subject) competences (PC):**

PC-1 – Ability to collect medical information about the patient and analyze clinical data.

PC-11 – Ability to solve medical problems in new or unfamiliar environments with incomplete or limited information, taking into account aspects of social and ethical responsibility.

PC-13 – Ability to carry out sanitary and hygienic, preventive measures.

PC-14 – Ability to plan and carry out preventive and anti-epidemic measures against infectious dis-

eases.

PC-15 – Ability to conduct an examination of working capacity.

PC-16 – Ability to keep medical records, including electronic forms.

PC-17 – Ability to assess the impact of the environment, socio-economic and biological determinants on the health state of the individual, family, population.

PC-18 – Ability to analyze the activities of a doctor, subdivision, health care institution, ensure the quality of medical care and improve the efficiency of the use of medical resources.

PC-19 – Ability to organize and integrate the provision of medical care to the population and the marketing of medical services.

PC-20 – Ability to conduct epidemiological and medical-statistical studies of public health; processing of social, economic and medical information.

PC-21 – Clearly and unambiguously convey their own knowledge, conclusions and arguments on health care issues and related issues to specialists and non-specialists, in particular to students.

PC-22 – Ability to manage workflows, in the field of health care, which are complex, unpredictable and require new strategic approaches

PC-23 – Ability to develop and implement scientific and applied projects in the field of health care.

PC-24 – Adherence to ethical principles when working with patients, laboratory animals.

PC-25 – Adherence to professional and academic integrity, to be responsible for the accuracy of the obtained scientific results

#### 4. Prerequisites of the course

"Health care organization, including work of the surgical service" (content module 3 «Organization of health care», content module 4 «Economics of health care») as a discipline:

- is based on and interacts with the following disciplines: history of medicine, medical informatics and computer technology, ethics, hygiene and ecology, epidemiology, sociology and medical sociology, the basics of economic theories;

- integrates with clinical disciplines;

- provides study of legal, organizational and economic principles of health care;

- lays the foundations for the study of the organization of medical and diagnostic process, as well as assessment of its scope and quality in the study of clinical disciplines;

- develops options for management decisions on the quality of medical care;

- promotes the formation of preventive activities of future doctors, taking into account the possible impact on public health of factors of various origins, risk assessment in the development of comprehensive medical and social measures in cooperation with the public health system;

- contributes to the formation of economic worldview and basic competency characteristics for the methodology of economic analysis of medical institutions in modern conditions.

#### 5. Program learning outcomes/ results

##### List of learning outcomes /results

Codes of Learning Outcomes	Description of the learning outcome	Reference to the code of the competence matrix of the program learning outcome in the Standard of higher education
<i>K-1</i>	Knowledge of the peculiarities of the organization of providing various types of medical care to the population	<i>PR-1, PR-15, PR-16, PR-26, PR-29</i>
<i>K-2</i>	Knowledge of the methodology of medical and social examination of disability in the work of various healthcare institutions.	<i>PR-2, PR-3, PR-18, PR-22</i>
<i>K-2</i>	Knowledge of main indexes that characterize the activity of healthcare institutions.	<i>PR-2, PR-16, PR-26, PR-28</i>
<i>K-2</i>	Knowledge of the peculiarities of filling in the main accounting and reporting documents in the system of healthcare institutions.	<i>PR-18, PR-22,</i>
<i>S-1</i>	Be able to calculate and assess main indexes of the activity of a doctor, subunit, and medical care institution.	<i>PR-16, PR-23, PR-26</i>
<i>S-2</i>	Be able to determine the source and location of necessary information depending on its type. Be able to process and analyze obtained information.	<i>PR-3, PR-19, PR-20, PR-21</i>
<i>S-2</i>	Be able to keep medical records of the patient and the contingent served; to encode the diagnosis according to ICD-10 and ICPS-2E	<i>PR-18,</i>

<i>S -3</i>	Be able to estimate the cost of medical services; substantiate the choice of an adequate method of financing (payment) and the choice of rational forms of organization of medical services. Apply methods of economic analysis when choosing methods of diagnosis, prevention, treatment, rehabilitation.	<i>PR-3, PR-15, PR-21, PR-23, PR-25, PR-28, PR-29</i>
<i>C -2</i>	Carrying out an analysis of the activity of a doctor, subunit, and healthcare institutions.	<i>PR-16,</i>
<i>C-1, C-2</i>	Carrying out examination of disability in the work of various healthcare institution.	<i>PR-2, PR-18,</i>
<i>C-2</i>	Carrying out management decisions based on evidence-based medicine	<i>PR-3, PR-21, PR-24, PR-25, PR-28</i>
<i>C-1, C-2</i>	Carrying out an epidemiological and medical-statistical research of public health	<i>PR-19, PR-20, PR-21, PR-23, PR-27, PR-29</i>
<i>AR-1</i>	Responsibility to formulate conclusions based on medical and epidemiological research	<i>PR-1, PR-21, PR-25, PR-27, PR-29</i>
<i>AR-2</i>	Responsibility for completeness and quality of information analysis and conclusions based on it.	<i>PR-2, PR-19, PR-20, PR-21, PR-23, PR-25, PR-28, PR-29</i>
<i>AR-2</i>	Responsibility for substantiality of assessment of risk factors for population's health.	<i>PR-19, PR-20, PR-23, PR-24, PR-25, PR-29</i>
<i>AR-3</i>	Responsibility for substantiality of decisions on the improvement of the activity of a doctor, subunit, and healthcare institution.	<i>PR-3, PR-15, PR-16, PR-22, PR-24, PR-26</i>

### **6. Format and scope of the course**

Course Format	<b>full-time</b>	
Type of academic classes	Number of hours	Number of groups
lectures	-	-
practical	<b>36</b>	14
seminars	<b>0</b>	-
self-study	<b>39</b>	14

### **7. Topics and description of the course**

Code of occupation type	Topic	Content of learning	Code of learning outcome	Teacher
<i>P-1</i>	Outpatient clinics. Accounting and reporting documentation. Normative and legal regulation of the ESHC	The main accounting and reporting documentation used to account for the work of the clinic, the content and procedure for its filling. Methods of calculating and analyzing the performance of the clinic according to the report of the legal entity, regardless of its legal form and the individual entrepreneur who conducts business activities in medical practice (f. № 20), the report on the number of diseases registered in patients living in the service area of the healthcare institution (f. № 12).	<i>PR-2, PR-3, PR-15, PR-16, PR-22, PR-26, PR-28, PR-29</i>	according to the schedule of groups
<i>P-2</i>	Organization of inpatient care for the population. Accounting and reporting documentation. Functioning of the ESHC during military situation	Methods of correctness of filling and analysis by the doctor of the hospital of the basic accounting and reporting documentation: Sheet of the account of movement of patients and bed fund (f. № 007 / o), the Consolidated statement of the account of movement of patients and bed fund in hospital, department or profile of beds 016/o), Pregnancy and childbirth histories (f. № 096 / o), Newborn development maps (f. № 097 / o), "Patient's discharge card" (f. № 066 / o), "Legal entity report regardless of its organizational and legal form and an individual entrepreneur who conducts business activities in medical practice, for 20__ years "(f. № 20)," Report on medical care for pregnant women, mothers and parturients for 20 years "(f. № 21)	<i>PR-2, PR-3, PR-16, PR-22, PR-26, PR-28</i>	according to the schedule of groups
<i>P-3</i>	The organization of work and performing the medico-social	Features of examination of medical and social disability and their legal basis. The purpose of conducting various types of medical examination, authorities and institutions that	<i>PR-2, PR-3, PR-15,</i>	according to the schedule of groups

	expertise of the disability.	carry it out. Types of medical examinations, their tasks. The essence of medical and social examination of temporary and permanent disability. Degrees of disability. Determining the sources and / or location of information used in the examination of temporary and permanent disability.	PR-16, PR-18, PR-19, PR-20, PR-21, PR-22, PR-24, PR-25. PR-26, PR-28	
P-4	Mortality. Filling in and analysis of accounting and reporting documentation	The main accounting documents that regulate the activities of doctors and medical institutions in the context of demographic processes (mortality): Medical certificate of perinatal death (f. № 106-2 / o), Medical certificate of death (f. № 106 / o). Methods of correctness of filling and analysis by the doctor of the basic accounting and reporting documentation.	PR-2, PR-3, PR-18, PR-20, PR-21, PR-22, PR-23, PR-25, PR-27, PR-28	according to the schedule of groups
P-5	Birth. Filling in and analysis of accounting and reporting documentation. Preparation for the final attestation of graduates	The main accounting documents that regulate the activities of doctors and medical institutions in the context of demographic processes (fertility): Medical birth certificate (f. № 103 / o). Methods of correct filling and analysis by the doctor of the main accounting and reporting documentation: Exchange card of the maternity hospital, maternity ward of the hospital (information of the women's clinic, about the pregnant woman) (f. № 113 / o), History of child development (f. № 112 / o).	PR-2, PR-3, PR-18, PR-20, PR-21, PR-22, PR-23, PR-25, PR-27, PR-28	according to the schedule of groups
P-6	Theoretical and organizational basics of economics of health care	Subject, methods, aim, and the main tasks of economics of health care as an economic category. The specifics and mechanism of action of economic laws in the field of health care and in medical care. The essence, functions and methodology of activity planning in the health care system. The planning of scopes of activity of health care facilities and the personnel size in rendering medical aid. The strategy of development of health care system.	PR-2, PR-3, PR-21, PR-22, PR-25, PR-27, PR-28	according to the schedule of groups
P-7	Strategies of morbidity prevention, including COVID-19. Features of medical care during martial law. The pricing in the health care system	The methodical approaches to study the factors that determine the level of public health status and its separate contingents. The peculiarities of study the influence of factors: social and economic, social and biological, ecological and natural -and - climatic, medical and organizational. The use of biostatistical methods (derivative quantities and average values, method of standardization, correlative and regressive analysis, parametric and nonparametric evaluation of probability of results of studies, granting, rating evaluation). Indicators of public health status by WHO. The essence of the price. Price functions. Pricing factors. Price regulation mechanism. Classification of prices in the health care system. Pricing policy of the medical institution. Stages of the pricing process. Elements of the price of	PR-2, PR-3, PR-21, PR-22, PR-25, PR-27, PR-28	according to the schedule of groups

		medical service. Classification of costs for the provision of medical services: fixed, variable, average, marginal, overhead, alternative. Pricing methods. Pricing strategies. Healthcare services are exempt from VAT.		
IWS-1	The comprehensive assessment of the public health status based on the integral indicators. The risk factors of the acute respiratory disease COVID-19, caused by a coronavirus SARS-CoV-2. Automated directories of the central database of the e-Health system	The use of statistical methods of determining and estimation public health status in interconnection with the factors that cause it. Definition of the main integral indicators of public health status.	PR-2, PR-3, PR-15, PR-19, PR-20, PR-23, PR-24, PR-29	according to the schedule of groups
IWS-2	The technique of the accuracy of completion (filling-in) and analysis of the main accounting and reporting documentation HCF (health care facility). Central database registers of the ESHC	Methods of correctness of filling and analysis by the doctor of the basic accounting and reporting documentation: The outpatient medical record (f. № 025 / o), Extracts from the outpatient medical record / inpatient (f. № 027 / o), Individual card of a pregnant woman and a woman in labor. № 111 / o), Exchange card of the maternity hospital, maternity ward of the hospital about the pregnant woman) (f. № 113 / o), History of the child's development (f. № 112 / o).	PR-2, PR-3, PR-18, PR-21, PR-22	according to the schedule of groups
IWS-3	The organization of the preventive measures in HCF at different levels, including during martial law. Electronic medical records in the ESHC, their differences from the medical information in medical record documentary forms	The methods and means of sanitary-hygienic study education of the population, their peculiarities in different health care facilities. The definition of notions: «promotion of health», «healthy lifestyle», «prophylactics/prevention». Types of prevention. The value of healthy lifestyle formation for preserving and strengthening the public health. The leading factors of lifestyle that influence on the public health status. The working-out of questionnaires to study the factors that influence on the public health status. The drawing up plans. The value of communication in questions of maintaining and strengthening good health. The value of public relations and mass media. Problems and possible mistakes. The press release in public health – the important form of reporting information to the general public: drafting and using.	PR-2, PR-3, PR-15, PR-19, PR-20, PR-23, PR-24, PR-29	according to the schedule of groups
IWS-4	The organization of the medical insurance as a mechanism of financing the health care system. Interaction of the ESHC with other government systems and registers	The content of health insurance. The types of health insurance and peculiarities of their organization. The economic essence of health insurance. The place and role of a general practitioner in the health insurance. The organization of quality control of medical service in the condition of health insurance medicine. The financial reliability of insurer. The insurance reserves. The technique of determining the health insurance rate. The economic analysis of health insurance in some developed countries.	PR-2, PR-3, PR-21, PR-22, PR-26, PR-28	according to the schedule of groups
IWS-5	The organization and content of financial management in the	The system of financing in the sphere of health care in modern conditions. The system of measures as to reforming of the budget policy in the health care system. The economic	PR-2, PR-3, PR-16,	according to the schedule of groups

	health care system. Organizational-management and technical-resource support of the ESHC development	mechanism of mutual settlements between the health care facilities in modern conditions. The essence, types, forms, mechanism of payment of medical specialists. The peculiarities of formation and regulation of prices in the health care system. The pricing policy in the health care system. The structure of prices of medical service and analysis of its elements. The technique of cost calculation of medical services The financial position of medical enterprises and mechanism of its evaluation. The main indices of the financial activity effectiveness of medical enterprises.	PR-21, PR-22, PR-26, PR-28	
IWS-6	The services market in the health care system. The organization of the entrepreneurial and marketing activities in the health care system. Plans of development of e-Health system of Ukraine	The patterns of formation, functioning and peculiarities of market and medical services in health care system. Organizational-and - economic and legal methods of market regulation in medical services. The conjuncture of services market in health care system: demand and supply, price and competition. The price flexibility of demand as an instrument of rational use of limited industry resources Medical services and their properties. Competition, types of competition structures. The essence of entrepreneurship and its peculiarities in the health care system. The legal factors of the entrepreneurship activity in the health care system. The economic essence of entrepreneurship while rendering the medical aid. The organizational and legal forms of entrepreneurship activity, their comparative characteristics. The business-plan as an instrument of entrepreneurship activity. The essence, principles, functions, tasks ad aim of marketing. The strategy and tactics of marketing activity. The ways of distribution the information and performance evaluation of the advertisement. The stages of the complex marketing research of the medical services market. The analysis of the possibilities of the medical institution on the market of medical services in the health care system. Advertisement.	PR-2, PR-3, PR-16, PR-21, PR-22, PR-26, PR-28	according to the schedule of groups
IWS-7	The economic analysis and performance evaluation of the activity of the health care facilities. Data quality management in digital healthcare environment	The essence of economic analysis in health. Efficiency of health facilities. Methods of economic evaluation of alternative medical interventions. Financial analysis of economic activity in the health care system.	PR-2, PR-3, PR-16, PR-21, PR-22, PR-26, PR-28	according to the schedule of groups

### 8. Verification of learning outcomes

#### Current control

*is carried out during academic classes and aims to check the knowledge of learning material by students. Forms of assessment of current educational activities include control of theoretical and practical skills. The final grade for the current academic activity is based on a 4-point (national) scale*

Code of learning outcome	Code of occupation type	Method of verifying learning outcomes / results	Evaluation criteria
AR-1, AR-2, AR-3	PR-1-7	Checking of a written task for	passed / not passed



		extracurricular self-preparation for practical lesson	
AR-1, AR-2, AR-3	IWS-7	Checking of a written task for self-study	passed / not passed
Kn-1, Kn-2 S-1, S-2, S-3 C-1, C-2	PR-1-7 IWS-1-7	Oral control during a practical class on lecture material, the topic of practical lesson and independent work	"2" - <60% of correct answers; "3" - 60-69%, "4" - 70-89%, "5" - 90-100%.
Kn-1, Kn-2 S-1, S-2, S-3 C-1, C-2	PR-1-7 IWS-1-7	Test control during a practical lesson	"2" - <70% of correct answers; "3" - 70-79%, "4" - 80-89%, "5" - 90-100%.
Kn-1, Kn-2 S-1, S-2, S-3 C-1, C-2	PR-1-7 IWS-1-7	Demonstrating practical skills of calculation of indicators	"2" - <60% of correct answers; "3" - 60-69%, "4" - 70-89%, "5" - 90-100%.
Kn-1, Kn-2 S-1, S-2, S-3 C-1, C-2 AR-3	PR-1-7 IWS-1-7	Demonstrating practical skills of evaluation and analysis of the study results	"2" - <60% of correct answers; "3" - 60-69%, "4" - 70-89%, "5" - 90-100%.
<b>Final control</b>			
General evaluation system	Academic performance during the semester - 100% on a 200-point scale. Final control includes semester control and attestation of the student on the national scale and scale ECTS.		
Rating scales	Traditional 4-point scale, multi-point (200-point) scale, ECTS rating scale		
Conditions of admission to the final control	The student attended all practical (laboratory, seminar) classes and received at least 120 points for classroom academic performance		
Type of final control	Methods of final control	Criteria of Evaluation	
Credit	Students have to pass all topics by the thematic schedule. Grades by the 4-point scale are converted into points on a multi-point (200-point) scale in accordance with the Regulation "Criteria, rules and procedures for evaluating the results of student academic performance"	<i>The maximum number of points is 200. The minimum number of points is 120</i>	
<b>Exam evaluation criteria</b>			
<b>The maximum number of points</b> that a student can score for the current academic performance to pass a credit is 200 points.			
<b>The minimum number of points</b> that a student has to score for the current academic performance to receive credit is 120 points.			
<b>The calculation of the number of points</b> is based on the grades received by the student by a 4-point (national) scale during the course of the discipline, by calculating the arithmetic mean (A), rounded to two decimal places. The resulting value is converted into points on a multi-point scale as follows:			
$x = \frac{A \times 200}{5}$			
<b>9. Course policy</b>			
During the course, teachers promote a policy of academic integrity.			
<b>10. Literature</b>			
<b>Basic</b>			
1. Gruzeva T.S., Lekhan V.M., Ognev V.A., Galienco L.I., Kryachkova L.V., Palamar B.I., Grechishkina N.V., Litvynova L.O., Gutor T.G. [etc.]. Biostatistics: a textbook for the training of specialists of the second (master's) level of higher education / edited by Prof. T.S. Gruzeva. Vin-nytsia: New Book, 2020. 384 p.			
2. The public health: textbook for students of higher educational establishments. Vinnytsia: «New book/Nova Knyha», pub. 3. 2013. 560 p.			

3. Workshop for preparation for practical classes in the academic discipline "Public Health". Lviv, 2020.
4. Jekel's Epidemiology, Biostatistics, Preventive Medicine, and Public Health: With Student Consult. Joann G. Elmore, Dorothea Wild, Heidi D. Nelson, David L. Katz. Elsevier; 5th edition. 2020. 464 p.
5. Oxford Textbook of Global Public Health, 6 edition. / Edited by Roges Detels, Martin Gulliford, Quarraisha Abdool Karim and Chorh Chuan Tan. Oxford University Press, 2018. 1728 p.

**Additional**

1. Brigitte Baldi, David S. Moore Practice of Statistics in the Life Sciences Fourth Edition. W. H. Freeman; Fourth edition. 2018. 768 p.
2. Board Review in Preventive Medicine and Public Health. Gregory Schwaid. Elsevier, 2017. 450 p.
3. Liam J. Donaldson, Paul Rutter. Donaldson`s Essential Public Health, Fourth Edition. CRC Press, Taylor&Francis Group, 2017. 374 p.
4. The Legislation of Ukraine. The electronic resource: zakon.rada.gov.ua/
5. The medical legislation of Ukraine. The electronic resource: http://mozdocs.kiev.ua/
6. The statistical data of Ukraine. The electronic resource: http://www.ukrstat.gov.ua/
7. The statistical data of the Lviv region. The electronic resource: https://www.lv.ukrstat.gov.ua/
8. The center of public health WHC of Ukraine (Ministry of Health of Ukraine): https://phc.org.ua/
9. The Ukrainian database of medico-statistical information «Health for all»: http://medstat.gov.ua/ukr/news.html?id=203
10. The World Health Organization www.who.int
11. The European Regional Bureau of WHO www.euro.who.int/ru/home
12. The Kokhranivsky centre of evidence-based medicine www.cebm.net
13. The Kokhranivsky library www.cochrane.org
14. The National medical library of the USA – MEDLINE PubMed www.ncbi.nlm.nih.gov/PubMed
15. The Canadian evidence-based centre of public care www.cche.net
16. The Centre of control and disease prevention www.cdc.gov
17. The Journal British Medical Journal www.bmj.com
18. The Journal Evidence-Based Medicine www.evidence-basedmedicine.com

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

- Curriculum, thematic schedules of seminars and independent extracurricular activities
- Legislative documents
- Accounting and reporting forms of medical documentation
- ICD-10 revision
- Educational and methodical recommendations on the topic of the lesson (theoretical presentation of the topic of the lesson, control questions, situational tasks for independent work and a list of recommended references)
- Textbooks and manuals from the library
- Computer and multimedia projector
- Stands and tables on the subject of the lesson

**12. Additional information**

All the necessary information for the educational process –thematic schedules of classes and extra classes, lecture materials, guidelines for practical classes, independent work of students, test control of knowledge is available in Misa: <http://misa.meduniv.lviv.ua/course/view.php?id=1211>

Syllabus compiler  
Assistant, Timchenko N.F.

Head of department  
Assoc. Prof., PhD Gutor T.G.