

SYLLABUS
for the discipline
“SOCIAL MEDICINE, PUBLIC HEALTH”
(Content module 2. Public health)

for the 4th-year students
of the second (master`s) level of higher education,
qualification "Master of Medicine"
professional qualification "Physician"

branch of knowledge 22 «Health Care»
specialty 222 «Medicine»



1. General information	
Faculty	Foreign Students
Educational program	22 Healthcare, 222 Medicine, second (master's) level of higher education, full-time
Academic year	2023-2024
Name of discipline, code	Social medicine, public health (Content module 2. Public health) https://new.meduniv.lviv.ua/kafedry/kafedra-sotsialnoyi-medytsyny-ekonomiky-ta-organizatsiyi-ohorony-zdorov-ya/
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	4th year of study
Term	7th or 8th terms
Type of discipline / module	Obligatory
Teachers	Associate Professor Taras Gutor taras_gutor@ukr.net Associate Professor Oksana Kovalska oksanaromkov@ukr.net Assistant of the department Zarembo Natalia natalyazarembo@gmail.com Assistant of the department Irina Gupalo irahup@gmail.com Assistant of the department Natalia Timchenko timchenkonataliaf@ukr.net Assistant of the department Ruslan Litvinyak litrus@ukr.net Assistant of the department Roman Lysuyk socmed_ES@i.ua
Erasmus	no
The person responsible for the syllabus	Associate Professor Oksana Kovalska oksanaromkov@ukr.net
Number of ECTS credits	3 credits
Number of academic hours	90 hours (8 hours of lectures, 37 hours of practical classes, 45 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 3.30 p.m. till 5.00 p.m.
Address, telephone and regulations of the clinical base, office	Clinical base is not provided
2. Short description to the course	
Academic discipline "Social medicine, public health" (module 2. Public health) involves mastering the public health system based on the analysis of the complex of medical indexes: demographic, morbidity, disablement, physical development; and the organization of the health care system at all levels.	
3. The purpose and objectives of the course	
1. The purpose of the discipline «Social medicine,public health» (module 2 «Public health») is training of specialists, who would have owned a sufficient amount of knowledge, skills and obtained competency regarding the exploration/research, analysis and assessment of population's health indexes, organization , resource provision and activity of health care system, development of recommendations regarding prevention and elimination of harmful influence of factors on health , from the standpoint of evidence-based ,and improvement of organization of medical care to the population and public health	

system .

2. Learning objectives:

- Mastering the methods of determination, analysis and assessment of the main population's health indexes according to certain criteria and in interaction with factors, that affect/influence it;
- Mastering principles of establishing measures aimed at saving and strengthening the health of population and its certain contingents;
- Mastering theoretical basis, modern principles, laws, legal bases and strategic directions of public health development;
- Mastering basis of organization of medical care, principles of assessment an organization and quality of provision of various types of medical care to the population in conditions of reforming the health care branch;
- Formation of knowledge regarding examinations of disability, its kinds/types, an order of organization and actions of medical workers/specialists concerning certain situations of disability examinations.

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 diseases.
- 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

"Social medicine, public health" (module 2. Public health) 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;
- 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;
- provides the study of legal and organizational principles of health 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 social-economic and biological determinants, that influence population's health.	<i>PR-1, PR-29</i>
<i>K-1</i>	Knowledge of healthcare system. Knowledge of types of medical care and main types of healthcare institutions.	<i>PR-2, PR-16</i>
<i>K-2</i>	Knowledge of main characteristics of medical care quality. Knowledge of the main components of improvement of medical care quality and demands on medical care standardization.	<i>PR-2, PR-3</i>
<i>K-2</i>	Basic knowledge about social-medical examination. Knowledge of main regulations, that regulate/adjust the determination of a type, degree and duration of disability. Knowledge of main types of temporary disability and its procedure.	<i>PR-2, PR-3, PR-22</i>
<i>K-2</i>	Knowledge of main indexes that characterize the activity of main types of healthcare institutions and subunits. Knowledge of medical-organizational factors/determinants that influence the activity of a doctor, subunit, and healthcare institution.	<i>PR-1, PR-2, PR-3, PR-16</i>
<i>K-1</i>	Knowledge of principles and methods of propagation of healthy lifestyle. Knowledge about health status of a patient or population and principles of prophylaxis.	<i>PR-1, PR-2, PR-3, PR-19, PR-23, PR-29</i>
<i>K-2</i>	Knowledge of system of official document flow in the professional work of a doctor, including modern computer information technology.	<i>PR-2, PR-18</i>
<i>S-1</i>	Be able to assess the connection and influence of social-economic and biological factors on the health of individual, family, and population.	<i>PR-15, PR-29</i>
<i>S-2</i>	Be able: to organize one own's work and work in a team with junior staff or in an interdisciplinary team. Determine the rational medical route/itinerary of the patient.	<i>PR-15, PR-16, PR-24, PR-26, PR-27</i>
<i>S-3</i>	Be able to control the quality of medical care based on statistical data, expert assessment/peer review and sociological research data. Determine factors that prevent the improvement of medical care quality and safety; substantiate management decisions on medical care safety and quality improvement.	<i>PR-16, PR-18, PR-21, PR-24, PR-28</i>
<i>S-3</i>	Be able to determine presence and severity of life restrictions, type, degree, duration of disability based on data on the disease and its course in simulated clinical-organizational situation. Be able to fill in certain papers, that certificate temporary disability.	<i>PR-2, PR-18, PR-23, PR-</i>
<i>S-3</i>	Be able to calculate and assess main indexes of the activity of a doctor, subunit, and medical care institution. Be able to detect defects of the activity and the reasons of their formation. Be able to substantiate management decisions on the improvement of the activity of a doctor, subunit, and healthcare institution.	<i>PR-16, PR-21, PR-24, PR-25</i>
<i>S-2</i>	Be able to assess health status of a patient or population at the service area. Be able to organize the propagation of healthy lifestyle, primary prevention of diseases and injuries among the population.	<i>PR-15, PR-19, PR-20, PR-23. PR-28</i>
<i>S-1</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-2, PR-21, PR-27</i>
<i>C-2</i>	Assessing the influence of social-economic and biological determinants on	<i>PR-19, PR-23, PR-29</i>

	population's health	
C-2	Carrying out measures for the organization and integration of medical care.	PR-24, PR-26
C-2	Carrying out measures to ensure the quality and safety of medical care.	PR-23, PR-24, PR-28
C-2	Carrying out/realization an examination of efficiency	PR-18, PR-27
C-2	Carrying out an analysis of the activity of a doctor, subunit, and healthcare institution .	PR-16, PR-26
C-1	Carrying out preventive measures.	PR-19, PR-20, PR-29
C-2	Keeping medical documentation.	PR-18, PR-25
A-1	Responsibility for substantiality of assessment of risk factors for population's health.	PR-19, PR-23, PR-29
A-2	Responsibility for substantiality of conclusions on improvement of organization , routing and provision of medical care integration.	PR-16, PR-26, PR-28
A-3	Responsibility for substantiality of management decisions on the level of the doctor, institution, subunit on medical care quality improvement.	PR-15, PR-16, PR-24,
A-2	Responsibility for substantiality of decisions on medical social efficiency examination.	PR-18, PR-, PR-28
A-3	Responsibility for substantiality of decisions on the improvement of the activity of a doctor, subunit, and healthcare institution.	PR-16, PR-24
A-2	Take responsibility for the timely and high-quality carrying out measures on the assessment of health status of population's contingents, measures on sanitation and improvement of health, advocacy of healthy lifestyle and primary prophylaxis.	PR-2, PR-19, PR-20, PR-23, PR-25, PR-28, PR-29
A-3	Responsibility for completeness and quality of information analysis and conclusions based on it.	PR-1, PR-21, PR-25, PR-27

6. Format and scope of the course

Course Format	full-time	
Type of academic classes	Number of hours	Number of groups
lectures	8	4
practical	37	4
seminars	0	-
self-study	45	4

7. Topics and description of the course

Code of occupation type	Topic	Content of learning	Code of learning outcome	Teacher
L-1	Reform in health care system. Family medicine. The role of the family physician in the fight against acute respiratory disease COVID-19 caused by the coronavirus SARS-CoV-2	Reform in healthcare system: definition of the term, driving forces. Directions and conditions of successful medical branch reform. Healthcare model of Ukraine: main characteristics and problems. Strategic documents, that determine the ways of reforming the national health care system, stages and measures. Reforming of service provision, financing, management, training of personnel in the national health care system. Monitoring of morbidity and diseases prevalence. Strategic planning of public health services, politics planning and monitoring of its execution/realization.	PR-1, PR-2, PR-3, PR-16, PR-19, PR-20, PR-22, PR-24, PR-27, PR-29	Associate Professor Taras Gutor
L-2	The main legislative principles of healthcare and the organization of medical care to the population of the Ukraine	The right for health care as an integral part of social rights. System of legal provision of health care in Ukraine. Branches of law, with which relations arise in realization of the right for health care. Normative-legal legislation of Ukraine on health care issues. Reflection of health issues in the codes of Ukraine (civil, economic and other.). Constitution of Ukraine (1996). Law of Ukraine "On ensuring the sanitary and epidemic well-being of the population" (1994). Law of Ukraine: «On amendments to the basics of the health care legislation of Ukraine on improving the	PR-1, PR-2, PR-3, PR-19, PR-20, PR-24, PR-27	Associate Professor Taras Gutor

		provision of medical assistance» (2011).		
L-3	Medical-social problems of mother and child protection. Reproductive health	Place and role of motherhood and childhood protection services in reproduction of generations. Maternity and childhood protection legislation. Reproduction health, dynamics of its indexes. Types of institutions providing various types of care. Organization of therapeutic-prophylactic care to children, peculiarities of providing specialized care. State and regional programs of women and children's health improvement, the value of complexity in their realization. National program «Nation's reproductive health».	PR-2, PR-3, PR-16, PR-22, PR-23, PR-26, PR-27	Associate Professor Taras Gutor
L-4	Organization of disability examination. The main legislative and legal issues of disability and rehabilitation	Types of disability. Levels of temporary disability examination. Work incapacity certificate as a source of information for studying morbidity with temporary disability. Determination of tactics of different officials of therapeutic-prophylactic institutions concerning particular types and cases of temporary disability. Indexes. Depth study of employees' morbidity depending on standing/experience, profession, work conditions.	PR-2, PR-3, PR-15, PR-18, PR-25, PR-27	Associate Professor Taras Gutor
P-1	Analysis and assessment of factors, that affect population's health	Risk factors classification, that affect health. Specifics of studying factors' influence. Indicators of Population health assessment system of WHO.	PR-2, PR-3, PR-23, PR-27	according to the schedule of groups
P-2	Analysis and assessment of the main demographic processes of the population. Methodology of analysis and evaluation of infant mortality rates.	Documents, used in studying population's natural movement. The order of birth registration in Ukraine. Essence of terms «livebirth», «stillbirth», «death of the fetus». Methods of determination and assessment of the general and special birth-rate indexes. General mortality. The order of deaths registration in Ukraine. Methods of studying mortality, determination of general and special indexes, their value/meaning and assessment. Structure of mortality causes. Natural increase of population. Population quantity changes. Mechanical and natural population movement. Assessment of demographic situation. Gender disproportion: reasons and consequences. Urbanization of the population as a social-economic problem. The order of infants death-rate registration (infantile). Methods of determination of general, neonatal, early neonatal, late neonatal, postnatal infants' death-rate indexes.	PR-2, PR-3, PR-21, PR-25, PR-28	according to the schedule of groups
P-3	Analysis and assessment of indexes of general morbidity	Study of morbidity according to the data of medical care requests. Methods of determination of primary morbidity and disease prevalence indexes, their assessment. Dynamics of general and primary morbidity indexes, their regional peculiarities.	PR-2, PR-3, PR-23	according to the schedule of groups
P-4	Analysis and assessment of infectious (including COVID-19 caused by coronavirus SARS-CoV-2), socially significant and hospitalized morbidity indexes/ indicators	Peculiarities of accounting of infectious, socially significant and hospitalized morbidity. Accounting papers, rules for filling them out. Methods of determination of specified types of morbidity, their assessment, regional peculiarities. Dynamics of indexes.	PR-2, PR-3, PR-19, PR-20, PR-23, PR-24, PR-29	according to the schedule of groups
P-5	Organization and content of the work	Goals and divisions of polyclinics activity, its structural subunits. Staff standards. Functions	PR-2,	according to the

	of outpatient clinics, accounting and analysis of its activity. Family doctor/General practitioner.	of the main subunits. Organization and content of the work of district therapist, head of the department. Types of preventive inspections, their organization. Main documents, that are used for accounting of polyclinic subunit's work, content and order of their filling. Methods of calculation and analysis of polyclinic activity indexes based on the report data of therapeutic and prophylactic institution (f. № 20), report on disease prevalence, registered among patients, that live in the district/area of service of the therapeutic and prophylactic institution (f. № 12). Development of measures towards polyclinic and outpatient clinic's activity improvement. The role of family doctor/general practitioner in provision of medical needs of urban or rural population.	PR-3, PR-15, PR-16, PR-22, PR-26, PR-28, PR-29	schedule of groups
P-6	Organization and content of the work of inpatient institution and inpatient replacement institution	In-patient hospitals' tasks. Structural subunits of hospitals and its functions. The order of referral of patients to in-patient hospitals. Factors, that influence the rational use of the bed fund and efficiency of in-patient hospital. The main documentation, that is used for accounting of the work of in-patient hospital, content and order of its filling. Types of hospital replaceable institutions. Tasks, structure and functions of its. The order of patients' referral to day-hospital and hospital at home. The main accounting documentation of the day-hospital and hospital at home, the order of its filling. Methods of calculation and analysis of inpatient and hospital replaceable institutions activity.	PR-2, PR-3, PR-16, PR-22, PR-26, PR-28	according to the schedule of groups
P-7	Organization and content of the work of emergency medical service, including during martial law.	Organization of the work of emergency medical service. Structure of EMC stations and substations of the big city. Types of field crews, their composition, functions. Calls and field trips of field crews: main reasons. Cooperation of EMC service with different medical institutions. Accounting documents of EMC stations, determination and analysis of their activity indexes. EMC and catastrophes medicine centers. Structure, staff, tasks and main functions. Tasks of emergency medical care (EMC) stations (departments) and its functions. Activity indexes of the service. The value of emergency medical care service.	PR-2, PR-3, PR-15, PR-16, PR-22, PR-24, PR-26, PR-28	according to the schedule of groups
P-8	Organization of obstetric-gynecological care	Tasks and concept of gynecologic work, its structural subunits. Expert's assessment of organizational elements of medical provision of pregnant women and women with gynecological diseases. Tasks, concept of maternity hospital's work, peculiarities of its structure, cooperation with women's counseling, children's polyclinics, orphanages. Main accounting documentation of maternity hospitals. Concept and order of its filling, opportunities of its use. Methods of calculation and analysis of indexes of maternity houses' work.	PR-2, PR-3, PR-16, PR-22, PR-26, PR-28	according to the schedule of groups
P-9	Organization of medical care to child population	Population's health indexes. Main informational sources when studying population's health. Health criteria and groups. Complex assessment of individual health. Health quality assessment. Complex assessment of population's health. Integral indexes of complex assessment of	PR-2, PR-3, PR-16, PR-22, PR-26,	according to the schedule of groups

		population's health: population's vitality coefficient; index of human development.	PR-28, PR-29	
P-10	Organization and methods of carrying out the medical disability examination	Peculiarities of carrying out medical-social disability examination and its legal principles. Tasks of carrying out various types of medical examinations, authorities and institutions, that are carrying it out. Types of medical examinations, their tasks. Essence of medical-social examination of temporary and permanent disability. Degrees of disability.	PR-2, PR-3, PR-18, PR-21, PR-22, PR-28	according to the schedule of groups
P-11	Examination of temporary disability in healthcare institutions	Tasks of doctors when carrying out temporary disability examination. Therapeutic-advisory commission (TAC): functions, composition, organization of work. Determination of tactics of different officials of therapeutic-prophylactic institutions concerning particular types and cases of temporary disability. Arranging work incapacity certificate in certain types and cases of temporary disability. Degrees of disability. Institutions, that carry out temporary disability examination, their tasks. Peculiarities of carrying out the examination in certain types of disability.	PR-2, PR-3, PR-18, PR-25, PR-28	according to the schedule of groups
P-12	Assessment of the quality of medical care to the population	Main conceptions and terms of medical care quality. Standards of medical care quality concerning clinical-statistical groups, nosological groups. Organization of carrying out expert assessment of the activity of medical institutions, their subunits and medical personnel. Development of questionnaires for assessment of different types of medical activity. Methods of determination the treatment quality level, models of final results, integral efficiency coefficient. The essence of expert assessments of population's satisfaction with health care..	PR-2, PR-3, PR-21, PR-25, PR-26	according to the schedule of groups
P-13	Methods and means of hygiene education of the population	The value of healthy lifestyle formation for preservation and strengthening of population's health. Leading factors of lifestyle, that affect/influence population's health state. Goals and concept of health center's work, their cooperation with health care institutions. Main directions of medical-hygienic education in various health care institutions. Methods and means of medical-hygienic education of the population, their peculiarities.	PR-2, PR-3, PR-19, PR-20, PR-25, PR-29	according to the schedule of groups
IWS-1	Public health, functions and services	Public health as a science and subject of teaching. Main terms and definitions, history of creation of public health care system. Main operative functions of public health. Main services of public health. Modern development of public health system in Ukraine and in the world. Public health infrastructure.	PR-1, PR-2, PR-3, PR-22, PR-26	according to the schedule of groups
IWS-2	Population's health : main determinants	Goal approaches to definition of the term «health». Methods of studying health. Population's health indexes. Leading groups of factors, that influence population's health.	PR-2, PR-3, PR-23	according to the schedule of groups
IWS-3	Morbidity of the population as a medical and social problem	The concept of morbidity, the purpose of its study, features in Ukraine and the world. Medico-social significance of morbidity as a leading cause of temporary and permanent disability, mortality. The impact of morbidity on the needs of the population in providing medical care, on the health of future generations. Economic costs associated with the disease,	PR-2, PR-3, PR-21, PR-23	according to the schedule of groups

		including with the incidence of socially significant and dangerous diseases. Methods of studying morbidity, the possibility of applying certain methods, their advantages and disadvantages. Factors influencing the completeness of data on morbidity depending on the methods of its study. International statistical classification of diseases, injuries and causes of death, principles of its construction and significance. Types of morbidity studied in Ukraine.		
IWS-4	The value of socially significant diseases (including COVID-19 caused by coronavirus SARS-CoV-2)	Diseases of cardiovascular system, oncologic, neuro-psychic, diabetes, tuberculosis, HIV-infection /AIDS, traumatism, alcoholism, addiction and substance abuse as medical-social problems. Leading causes, that influence disease prevalence. Dynamics of the main indexes. Traumatism, as a medical-social problem, types of traumatism, record of cases, dynamics of indexes, age and gender peculiarities in different world regions and in Ukraine.	PR-2, PR-15, PR-19, PR-20, PR-23, PR-24, PR-28, PR-29	according to the schedule of groups
IWS-5	Tasks and content of Public health center's work of Ministry of health care of Ukraine (including COVID-19 caused by coronavirus SARS-CoV-2)	Common terms. Purpose, tasks and content of Center's work. Rights and obligations. Center management.	PR-2, PR-3, PR-16, PR-19, PR-22, PR-25, PR-29	according to the schedule of groups
IWS-6	Family medicine and its meaning in the system of medical assistance to the population	Organization of family doctor's work on conditions of its execution/realization on the basis of different models. Functions and concept of family doctor's work. Organization of cooperation between family doctors, paramedic service and social workers. The main accounting documentation of institutions, that work on the basis of family medicine. Determination and assessment of indexes of family doctors' work.	PR-2, PR-3, PR-15, PR-16, PR-29	according to the schedule of groups
IWS-7	Organization of the palliative and hospice care to the population and the perspective of its development	Organization of palliative and hospice care to population, perspectives of its development. Place and role of family doctor. Essence and specialties of medical-social provision of elderly population. Theoretic basis, modern principles of palliative and hospice medicine. Geriatric care provision system in Ukraine. The need of geriatric care, purpose and perspectives of its development.	PR-2, PR-3, PR-16, PR-25, PR-26	according to the schedule of groups
IWS-8	Organization and content of the work of emergency medical service, including during martial law.	Global threats to international health in 21st century. Emergency situations in the sphere of public health: consequences of climate change, epidemics, mass chemical damages, radiation catastrophes. International safety in the sphere of public health. Role of WHO in organization of notifications and quick responses in emergencies. Concept of international health, actual problems of international health on the example of Europe region. Bioterrorism – global threat to international health.	PR-2, PR-3, PR-15, PR-19, PR-20, PR-23, PR-24, PR-25	according to the schedule of groups
IWS-9	Organization and content of work of institutions of maternity and childhood protection.	Maternity and childhood protection systems. Reproductive health, dynamics of its main indexes. Characteristic of child population's health. The value of measures aimed at women's and children's health improvement. Therapeutic -prophylactic institutions providing obstetric-gynecological care.	PR-2, PR-3, PR-16, PR-26, PR-28, PR-29	according to the schedule of groups

IWS-10	Medical and social aspects of disability	Disability as an index/indicator of population's health. Organism's functions impairment, that lead to disability. Groups of disability. Causes of disability. Diseases classes, that cause the main reasons of population's disability. Indexes of disability : general disability (contingents of disabled), primary disability (disability). Structure of general and primary disability causes. Traumatism, as the main cause of disability of adult and child population. Disability among adult and child population. Regional peculiarities and dynamics of disability indexes.	PR-2, PR-3, PR-18, PR-25, PR-29	according to the schedule of groups
IWS-11	Organizational and legal principles of implementation and functioning of health insurance	Goal and tasks of medical insurance and insurance medicine. Principles, organizational-legal conditions and elements of insurance medicine. Types of medical insurance. Insurance medicine in Ukraine: history and modernity. Insurance subjects and objects. Risk for insurer of possible/probable payment for the provision of medical services to insured. Health insurance program. Insurance policy. Tariffs for insurance.	PR-2, PR-3, PR-18, PR-21, PR-26	according to the schedule of groups
IWS-12	The efficiency of the healthcare institution's activity management	The subject of management science. Laws of management science and complexity of their application. Principles of management. Main methods of management science. Peculiarities of management in health care system. The role of manager in health care system. Organization of management of health care system in Ukraine. Management decision: definition, stages of realization, advantages and disadvantages of different methods of its making. Determination of the type of management decision.	PR-2, PR-3, PR-16, PR-22, PR-25, PR-26	according to the schedule of groups
IWS-13	Preventive/prophylactic technologies in public health services	Methods and measures of medical-hygienic education of the population, their peculiarities in different health care institutions. Definition of terms «health promotion», «healthy lifestyle», «prevention/prophylaxis». Types of prophylaxis. The value of healthy lifestyle formation for preservation and strengthening population's health. Leading factors of lifestyle , that influence population's health state. Directions of healthy lifestyle formation.	PR-2, PR-3, PR-19, PR-20, PR-22, PR-23, PR-24, PR-25, PR-29	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	L-1-4	Checking the lecture notes	passed / not passed
AR-1, AR-2, AR-3	PR-1-13	Checking of a written task for extracurricular self-preparation for practical lesson	passed / not passed
AR-1, AR-2, AR-3	IND-1-13	Checking of a written task for self-study	passed / not passed
Kn-1, Kn-2	L-1-4,	Oral control during a practical	"2" - <60% of correct answers;

<i>S-1, S-2, S-3</i> <i>K-2</i>	<i>PR-1-13,</i> <i>IWS-1-13</i>	class on lecture material, the topic of practical lesson and independent work	"3" - 60-69%, "4" - 70-89%, "5" - 90-100%.
<i>Kn-1, Kn-2</i> <i>S-1, S-2, S-3</i> <i>K-2</i>	<i>L-1-4,</i> <i>PR-1-13,</i> <i>IWS-1-13</i>	Test control during a practical lesson	"2" - <70% of correct answers; "3" - 70-79%, "4" - 80-89%, "5" - 90-100%.
<i>Kn-1, Kn-2</i> <i>S-1, S-2, S-3</i> <i>C-1, C-2</i>	<i>PR-1-13,</i> <i>IWS-1-13</i>	Demonstrating practical skills of calculation of indicators	"2" - <60% of correct answers; "3" - 60-69%, "4" - 70-89%, "5" - 90-100%.
<i>Kn-1, Kn-2</i> <i>S-1, S-2, S-3</i> <i>C-1, C-2</i>	<i>PR-1-13,</i> <i>IWS-1-13</i>	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%.

Final control

General evaluation system	Academic performance during the semester/ exam - 60%/40% on a 200-point scale	
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 72 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 120.</i> <i>The minimum number of points is 72</i>

Exam evaluation criteria

The maximum number of points that a student can score for the current academic performance to pass a credit is 120 points.

The minimum number of points that a student has to score for the current academic performance to receive credit is 72 points.

The calculation of the number of points 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:

$$x = \frac{A \times 120}{5}$$

Assessment criteria and distribution system of exam points

The maximum number of points, that a student can collect when passing an exam is 80.

The minimum number of points, that a student can collect when passing an exam is not less than 50.

Part 1 of test paper (50 test situational tasks)

Student's answer results	Test control grade
0-69 %	0 points
70-79 %	12 points
80-89 %	21 points
90-100 %	24 points

Part 2 of test paper (4 tasks)

Student's answer results	Points for 1 answer / task
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Absent / wrong answer	0 points
Partial answer	8 points
Complete/full answer	14 points

9. Course policy

During the course, teachers promote a policy of academic integrity.

10. Literature

Basic

1. Gruzeva T.S., Lekhan V.M., Ognev V.A., Galienko 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. Vinnytsia: 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 Schwaib. 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 lectures, seminars and independent extracurricular activities;
- Presentations and full scripts of lectures
- 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

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=1209>

Syllabus compiler

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