

MINISTRY OF HEALTH OF UKRAINE
DANYLO HALYTSKY LVIV NATIONAL MEDICAL UNIVERSITY

SYLLABUS
for the discipline
"SOCIAL DENTISTRY"
VB 1.51
(Elective course)

for the training of second-level (master's) higher education professionals
in the field of knowledge 22 "Healthcare"
specialty 221 "Dentistry"



2023

1. General information	
Faculty	Foreign Students
Educational program	22 Healthcare, 221 "Dentistry", second (master's) level of higher education, full-time
Academic year	2023-2024
Name of discipline, code	"Social dentistry" VB 1.51 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 Hryhorovych Gutor taras_gutor@ukr.net
Year of study	2nd year of study
Semester	3 or 4 semesters
Type of discipline / module	Selective
Teachers	Associate Professor Taras Gutor taras_gutor@ukr.net Associate Professor Oksana Kovalska oksanaromkov@ukr.net Associate Professor Zarembo Natalia natalyazarembo@gmail.com Assistant of the department Iryna Hupalo irahup@gmail.com Senior teacher of the department Natalia Timchenko timchenkonataliaf@ukr.net Assistant of the department Roman Lysuyk socmed_ES@i.ua
Erasmus Yes / No	Erasmus - No
The person responsible for the syllabus	Senior teacher Natalia Timchenko timchenkonataliaf@ukr.net
Number of ECTS credits	3 credits
Number of hours	90 hours (30 hours of practical classes, 60 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, bureau	A clinical base is not provided
2. Short description of the course	
The elective course "Social Dentistry" is an elective course that explores the peculiarities of public health in dentistry. Methods of social dentistry include statistical, demographic, historical, experimental, epidemiological, economic, sociological, expert assessment methods, modeling, and forecasting. The significance of social dentistry in shaping healthcare is emphasized.	
3. The purpose and objectives of the course	
<p>1. The purpose of the elective course " Social Dentistry " is to acquire necessary knowledge, skills, and competencies related to researching, analyzing, and evaluating population health indicators, as well as understanding the organization, resource provision, and activities of the healthcare system. Additionally, the aim is to develop evidence-based recommendations for the prevention and elimination of harmful factors and to improve the organization of dental care for the population.</p> <p>2. The main objectives of the academic discipline "Social Dentistry" are:</p> <ul style="list-style-type: none"> - Mastering the regularities of formation and methodology for assessing population health indicators, including dental health. - Acquiring theoretical foundations and methods for evaluating the healthcare system, organizing various types of medical care, including dental care, and ensuring its accessibility and quality. - Learning methods for determining, analyzing, and evaluating key indicators of dental health based on specific criteria 	

and their interrelation with influencing factors.

3. **1.3 Competencies and learning outcomes enhanced by the discipline:**

General competences (GC):

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

GC-2 – Knowledge and understanding of the subject area and awareness of professional activities.

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

GC-4 – Ability to communicate in the state language both orally and in writing.

GC-5 – Ability to communicate in English.

GC-6 – Skills in using information and communication technologies.

GC-7 – Ability to search, process, and analyze information from various sources.

GC-8 – Ability to adapt and act in new situations.

GC-9 – Skill in identifying, posing, and solving problems.

GC-10 – Ability to be critical and self-critical.

GC-11 – Ability to work in a team.

GC-12 – Commitment to environmental preservation.

GC-13 – Ability to act socially responsible and consciously.

GC-14 – Ability to realize rights and duties as a member of society, understanding the values of a civil (free democratic) society and the necessity of its sustainable development, the supremacy of law, and the rights and freedoms of individuals in Ukraine.

GC-15 – Ability to preserve and enhance moral, cultural, and scientific values and achievements of society based on an understanding of the history and regularities of the development of the subject area, its place in the general system of knowledge about nature and society, and in the development of society, technology, and technologies. Using various types and forms of physical activity for active recreation and maintaining a healthy lifestyle.

Special (professional, subject) competencies (PC):

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

PC-2 – Ability to interpret the results of laboratory and instrumental studies.

PC-4 – Ability to plan and implement preventive measures for diseases of the oral cavity and maxillofacial area.

PC-5 – Ability to design the process of providing medical care: determining approaches, plans, types, and principles of treating diseases of the oral cavity and maxillofacial area.

PC-10 – Ability to organize and conduct therapeutic and evacuation measures.

PC-12 – Ability to organize and conduct screening examinations in dentistry.

PC-13 – Ability to assess the impact of the environment on the health of the population (individual, family, population).

PC-14 – Ability to maintain normative medical documentation.

PC-15 – Processing of state, social, and medical information.

PC-16 – Ability to organize and conduct rehabilitation measures and care for patients with diseases of the oral cavity and maxillofacial area.

PC-17 – Ability to ensure the legal support of one's own professional activities.

Learning outcomes:

Program learning outcomes, the formation of which is facilitated by the educational discipline:

PLO-6 – Plan and implement preventive measures for dental diseases among the population to prevent the spread of dental conditions.

PLO-7 – Analyze the epidemiological situation and carry out mass and individual, general and local pharmacological and non-pharmacological prevention of dental diseases.

PLO-12 – Organize the implementation of therapeutic and evacuation measures among the population, military personnel, in emergency situations, including during a state of war, during deployed stages of medical evacuation, taking into account the existing system of medical and evacuation support.

PLO-14 – Analyze and evaluate state, social, and medical information using standard approaches and computer information technologies.

PLO-15 – Evaluate the impact of the environment on the health of the population in medical institutions using standard methodologies.

PLO-16 – Set goals and determine the structure of personal activities based on the analysis of specific social and personal needs.

PLO-17 – Adhere to a healthy lifestyle, use self-regulation and self-control techniques.

PLO-18 – Be aware of and be guided by civic rights, freedoms, and responsibilities in professional activities, increasing the general educational and cultural level.

PLO-19 – Adhere to the requirements of ethics, bioethics, and deontology in professional activities.

PLO-20 – Organize the necessary level of individual safety (own and those for whom one is responsible)

in case of typical hazardous situations in the individual field of activity.

4. Prerequisites of the course

The elective course " Social Dentistry " as an educational discipline:

- Are grounded in students' study of other disciplines, such as the history of medicine, informatics and computer technologies, ethics, hygiene and ecology, epidemiology, sociology, and medical sociology, as well as the fundamentals of economic theories.
- Contribute to the formation of a preventive direction in the activities of future medical professionals, taking into account the potential impact of factors of various origins on the population's health. This includes the assessment of risks in the development of comprehensive medical and social measures in collaboration with the public health system.
- Facilitate the development of an economic worldview and essential competencies in the methodology of economic analysis of the activities of dental institutions in modern conditions.

5. Program learning results

List of learning results

Codes of Learning Results	Description of the learning result	Reference to the code of the competence matrix of the Program learning result in the Standard of higher education
<i>Kn-1</i>	Specialized conceptual knowledge acquired through education and/or professional activities at the level of the latest advancements, serving as a foundation for original thinking and innovative initiatives, particularly in the context of research work.	PR-6, PR-7, PR-12, PR-16
<i>Kn-2</i>	Critical reflection on issues in education and/or professional activities at the intersection of subject areas.	PR-12, PR-14, PR-15, PR-20
<i>S-1</i>	Solving complex problems that require updating and integrating knowledge, often in conditions of incomplete or insufficient information and conflicting requirements.	PR-15, PR-17, PR-18, PR-19
<i>S-2</i>	Conducting research and/or innovative activities.	PR-12, PR-14, PR-15, PR-20
<i>C-1</i>	Clear and unambiguous communication of one's own conclusions, as well as of knowledge and explanations that support them, to both specialists and non-specialists, including individuals who are learning.	PR -7, PR -14, PR -15, PR -17, PR -18
<i>C-2</i>	The use of foreign languages in professional activities.	PR-15, PR-17, PR-18, PR-19
<i>AR-1</i>	Decision-making in complex and unpredictable conditions, requiring the application of new approaches and forecasting.	PR-6, PR-7, PR-12, PR-16
<i>AR-2</i>	Responsibility for the development of professional knowledge and practices, as well as assessing the strategic development of the team.	PR-12, PR-14, PR-15, PR-20

6. Format and scope of the course

Course Format	<i>Full-time</i>	
Type of academic classes	Number of hours	Number of groups
lectures	0	
practical	30	
seminars	0	
self-study	60	

7. Topics and description of the course

Code of occupation type	Topic	Content of learning	Code of learning result	Teacher
P-1	Features of organizing dental care for various socially vulnerable population groups.	Stages, specialization, and features of organizing dental care in urban and rural areas. City dental clinic (dental outpatient department, dental office of therapeutic and preventive institutions): structure, functions, therapeutic and preventive work. Functions and organizational structure of specialized dental departments (therapeutic, surgical, orthopedic). Inpatient care for dental patients. Dental department of the regional (central city) multidisciplinary hospital, main tasks, organizational	PR-6, PR-7, PR-12	according to the schedule of the groups

		structure. The right to health protection as a component of social rights. The system of legal support for healthcare in Ukraine. Normative legal legislation of Ukraine on healthcare.		
P-2	Medical confidentiality as a moral-ethical problem of modern dentistry.	The concept of medical confidentiality in historical and contemporary dimensions. Specifics of moral-ethical and legal regulation of the right to confidentiality. Basic moral models of physician-patient relationships.	PR-18, PR-19, PR-20	according to the schedule of the groups
P-3	Promotion of dental health.	The concept of "promotion of dental health" and its aspects. Types, directions, and levels of prevention in dentistry. Section on preventive work of a dentist. Indexes of caries and oral hygiene, inflammatory processes of the gums. The concept of "promotion of dental health" and its aspects (national, public, biotic, etc.). Types, directions, and levels of prevention in dentistry. Section on preventive work of a dentist. Indexes of caries and oral hygiene, inflammatory processes of the gums.	PR-6, PR-7, PR-12,	according to the schedule of the groups
P-4	Methods of conducting sociological research in medical practice.	Methods of collecting statistical data. Types of questionnaires, their characteristics. Marketing and sociological surveys, types of questions in surveys, problems of organizing surveys in healthcare.	PR-14, PR-15, PR-16	according to the schedule of the groups
P-5	Prevalence of caries, its consequences, and complications.	Caries of deciduous teeth in children. Patterns of clinical manifestations and course. Diagnosis, differential diagnosis, treatment.	PR-6, PR-7, PR-12	according to the schedule of the groups
P-6	Age-related changes and features of oral diseases.	Diseases of the oral cavity have many risk factors, which are divided into unchangeable (age, heredity) and changeable (lifestyle, behavior, habits). The latter are under our influence and, therefore, depend on ourselves. Main risk factors for oral diseases (unhealthy diet, tobacco smoking, alcohol consumption, inadequate oral hygiene, and care).	PR-6, PR-7, PR-12	according to the schedule of the groups
P-7	Transmission routes of hepatitis B and C in dentistry.	Ways viruses of hepatitis B and C enter the human body when the integrity of the skin and mucous membranes is compromised (sexual transmission, during childbirth, surgical interventions, blood and its components transfusion, use of non-sterile instruments and medical devices, during piercing, tattooing, and through personal hygiene items such as toothbrushes, razors, scissors).	PR-6, PR-7, PR-12, PR-15	according to the schedule of the groups
P-8	The use of phytoremedies in dentistry.	Basic principles of phytotherapy for periodontitis, gingivitis, stomatitis. Features of composing and using herbal blends. Official and unofficial medicinal plants used in dentistry.	PR-7, PR-14, PR-15, PR-17, PR-18	according to the schedule of the groups
P-9	Mechanization of dentistry: ethical aspect.	Technology as a social phenomenon. Main types of technology and medical technology. Stages of society and medicine mechanization. Characteristics of the main positive and negative consequences of society and medicine mechanization. Ethical aspect of technology intermediation between the doctor and the patient. The problem of depersonalization in modern medicine. Further mechanization and prospects of technoethics.	PR-6, PR-7, PR-12	according to the schedule of the groups
P-10	Methods and means of hygienic education and	The importance of forming a healthy lifestyle for preserving and strengthening the health of the population. Leading lifestyle factors affecting the health of the population. Directions for forming a healthy	PR-7, PR-14, PR-15, PR-17, PR-18	according to the schedule of the groups

	training of the population.	lifestyle. Health care institutions, departments, and services participating in the formation of the foundations of a healthy lifestyle for the community/individual. Tasks and content of the work of health centers, their interaction with healthcare institutions. Main directions of medical and hygiene education in various healthcare institutions. Methods and means of medical and hygiene education and training of the population, their features.		
IWS-1	Characterization of dental health of the population.	Targeted approaches to defining the concept of "health": philosophical, individual theoretical, individual practical, population. Population health as a conditional statistical concept, its medical indicators: demographic (birth rate, mortality, average life expectancy); physical development; morbidity; disability. Leading groups of factors affecting health indicators: people's lifestyle and level, environmental conditions, biological factors, accessibility, and quality of medical care.	PR-14, PR-15, PR-17, PR-18	according to the schedule of the groups
IWS-2	Analysis of the dental service activities.	Information on the actual level and extent of dental and oral cavity involvement in different age groups of the population. Proper recording of morbidity and activities, as a mandatory condition for the work of every practicing dentist.	PIP-7, PIP-14, PIP-15, PIP-17, PIP-18	according to the schedule of the groups
IWS-3	The importance of prevention in ensuring dental health of the population.	Types, directions, and levels of prevention in dentistry. Section on preventive work of a dentist. The essence of sanitary-educational work in dentistry. Indexes of caries and oral hygiene, inflammatory processes of the gums. Principles, tasks, and methods of sanitary education in dentistry.	PR-7, PR-14, PR-15, PR-17, PR-18	according to the schedule of the groups
IWS-4	Peculiarities of dental care for certain groups of the population (children, pregnant women, etc.).	Organization of dental care for urban and rural populations. Children's dental clinic (department), functions, structure, analysis of work. The importance of the urban (district) dental clinic in the healthcare system, its tasks, functions, structure, analysis of work. Content and organization of the work of dentists in the urban (district) dental clinic. Preventive work of the urban (district) dental clinic and the dentist.	PR-7, PR-14, PR-15, PR-17, PR-18	according to the schedule of the groups
IWS-5	Organization of dental care for the elderly. Palliative and hospice care.	Assessment of the health status of the elderly, its features. Basic trends in organizing geriatric care worldwide and in Ukraine. Medical and preventive institutions (departments) and other facilities providing medical and social assistance to the elderly in Ukraine. Palliative and hospice care.	PR-7, PR-14, PR-15, PR-17, PR-18	according to the schedule of the groups
IWS-6	Sociological research in dental practice.	Sociology of health. Principles and rules of surveys and questionnaires. Expert assessments. Rank and linear methods for assessing the relationship between indicators.	PR-7, PR-14, PR-15, PR-17, PR-18	according to the schedule of the groups
IWS-7	Basic requirements for conducting surveys.	Questionnaire, its structure. Contact questions (closed (structured), open (unstructured), semi-open questions).	PR-7, PR-14, PR-15, PR-17, PR-18, PR-19	according to the schedule of the groups
IWS-8	Current ethical issues in dentistry.	Ethical requirements are one of the fundamental conditions for a patient in dental treatment with non-removable prosthetic structures. In dental practice, 3D digital technologies for creating aesthetic structures, smile simulation programs, and tooth forms are widely used.	PR-7, PR-14, PR-15, PR-17, PR-18	according to the schedule of the groups

IWS-9	Conditions for violating medical confidentiality as a social necessity.	Doctor and medical confidentiality. Legislative acts specifying information constituting medical confidentiality. Temporary access to documents.	PR-7, PR-14, PR-15, PR-17, PR-18	according to the schedule of the groups
IWS-10	The problem of medical error.	Violations of professional duties by doctors. Responsibility for non-performance of professional duty. Criminal and administrative violations.	PR-7, PR-14, PR-15, PR-17, PR-18, PR-20	according to the schedule of the groups
IWS-11	Methods of sanitary and educational work in dentistry.	Main tasks of sanitary education and health promotion. Oral, printed, visual, and combined methods of sanitary education. Each of them has its forms: talks, lectures, answers to questions, lessons, seminars, games, distribution of printed and illustrated materials. Forms of population health provision include laws, decisions, resolutions, and instructions.	PR-7, PR-14, PR-15, PR-17, PR-18	according to the schedule of the groups
IWS-12	Management and leadership in dentistry and healthcare.	Main accounting and reporting documentation of dental institutions. Performance indicators of a dentist, dental clinic, and dental department of a hospital; measures for the rational use of their resources. Dental clinic and dental department of a hospital.	PR-7, PR-14, PR-15, PR-17, PR-18	according to the schedule of the groups

8. Verification of learning results

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 result	Code of occupation type	Method of verifying learning results	Evaluation criteria
AR-1, AR-2	P-1-10	Checking a written task for extracurricular self-preparation for a practical lesson	passed / not passed
AR-1, AR-2	IWS-1-12	Checking a written task for self-study	passed / not passed
Kn-1, Kn-2 S-1, S-2, C-1, C-2	P-1-10, IWS-12	Oral control during a practical class on 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, C-1, C-2	P-1-10, IWS-12	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, C-1, C-2	P-1-10, IWS-12	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, C-1, C-2	P-1-10, IWS-12	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 – 100% 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 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 following the Regulation "Criteria, rules and procedures for evaluating the results of student academic performance"	<i>The maximum number of points is 200.</i> <i>The minimum number of points is 120</i>
<p>The maximum number of points that a student can score for the current academic performance for the semester to pass is 200 points.</p> <p>The minimum number of points that a student has to score for the current academic performance to pass the discipline is 120 points.</p> <p>The calculation of the number of points is based on the grades received by the student by a 4-point (national) scale during 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:</p> $x = \frac{CA \times 200}{5}$		
9. Course policy		
During the course, teachers promote a policy of academic integrity.		
10. Literature		
<p>Basic</p> <ol style="list-style-type: none"> Public Health: a textbook for students of higher medical education institutions. - 3rd edition - Vinnytsia: "Nova Knyha", 2013. – 560 p. Oxford Textbook of Global Public Health, 6 edition. Edited by Roges Detels, Martin Gulliford, Quarraisha Abdool Karim and Chorh Chuan Tan. – Oxford University Press, 2017. – 1728 p. Medical Statistics at a Glance Text and Workbook. Aviva Petria, Caroline Sabin. – Wiley-Blackwell, 2013. – 288 p. Social Medicine and Health Care Organization (for students of dental faculties of higher medical education institutions in Ukraine of the IV level of accreditation. - K.: Knyha plyus, 2010. - 328 p. <p>Additionally:</p> <ol style="list-style-type: none"> Board Review in Preventive Medicine and Public Health. Gregory Schwaid. - ELSEVIER., 2017. – 450 p. Donaldson`s Essential Public Health, Fourth Edition. Liam J. Donaldson, Paul Rutter – CRC Press, Taylor&Francis Group, 2017 – 374 p. Jekel`s epidemiology, biostatistics, preventive medicine and public health. Fourth edition. David L. Katz, Joann G. Elmore, Dorothea M.G. Wild, Sean C. Lucan. – ELSEVIER., 2014. – 405 p. Oxford Handbook of Public Health Practice, Fourth Edition. Charles Guest, Walter Ricciardi, Ichiro Kawachi, Iain Lang. – Oxford University Press, 2012. – 656 p. Primer of Biostatistics, Seventh Edition. Stanton A. Glantz – McGraw-HillEducation, 2012. – 320 p. Biostatistics. - K.: Knyha plyus; 2009. - 184 p. Epidemiological Methods of Studying Non-Infectious Diseases / V.M. Lekhan, Yu.V. Voronenko, O.P. Maksymenko, et al. - D.: ART-PRES, 2004. - 184 p. Methods of Social Medicine / Ed. O.M. Ocheretko, O.G. Protsak. - Vinnytsia: Thesis, 2007. - 410 p. Population of Ukraine. Demographic Yearbook. - K.: State Statistics Service of Ukraine. (Access mode: www.ukrstat.gov.ua). Popchenko T.P. Reforming the healthcare sector in Ukraine: organizational, regulatory, and financial-economic support. - K.: NISD, 2012. - 96 p. Handbook of Social Medicine and Healthcare Organization. - K.: "Health", 2002. - 359 p. Program Test Questions on Social Medicine and Healthcare Organization. - Ternopil: Ukrmedknyha, 2001. - 316 p. Annual Report on the Health of the Population, Sanitary and Epidemiological Situation, and the Results of the Healthcare System in Ukraine. 2016 / Ministry of Health of Ukraine, State Institution "UIHD MOH Ukraine". - Kyiv, 2017. - 516 p. 		
11. Equipment, logistics, and software of the course		
<ul style="list-style-type: none"> Curriculum, thematic schedules of lectures, seminars, and independent extracurricular activities 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, guidelines for practical classes, independent work of students, and test control of knowledge are available in Misa.		

Syllabus compiler

Senior teacher Timchenko N.F.

Head of the department

Assoc. Prof., Ph.D. Gutor T.H.