



Uniwersytet Medyczny we Wrocławiu

KATEDRA I ZAKŁAD HIGIENY
ul. Mikulicza-Radeckiego 7
50-345 Wrocław

tel. 71 784 01 06, 71 784 15 02

faks: 71 784 15 03

Syllabus for academic year: 2021/2022

Training cycle: 2020/2021-2025/2026

Description of the course

Course	HYGIENE AND EPIDEMIOLOGY		Group of detailed education results										
			Group code	Group name									
			E	Non-interventional clinical sciences									
			G	Legal and organizational aspects of medicine									
Faculty	Faculty of Medicine												
Major	medicine												
Level of studies	<input checked="" type="checkbox"/> uniform magister studies <input type="checkbox"/> 1 st degree studies <input type="checkbox"/> 2 nd degree studies <input type="checkbox"/> 3 rd degree studies <input type="checkbox"/> postgraduate studies												
Form of studies	<input checked="" type="checkbox"/> full-time <input type="checkbox"/> part-time												
Year of studies	II	Semester:	<input checked="" type="checkbox"/> winter <input type="checkbox"/> summer										
Type of course	<input checked="" type="checkbox"/> obligatory <input type="checkbox"/> limited choice <input type="checkbox"/> free choice / optional												
Language of study	<input type="checkbox"/> Polish <input checked="" type="checkbox"/> English												
Number of hours													
Form of education													
	Lectures (L)	Seminars (SE)	Auditorium classes (AC)	Major Classes – not clinical (MC)	Clinical Classes (CC)	Laboratory Classes (LC)	Classes in Simulated Conditions (CSC)	Practical Classes with Patient (PCP)	Foreign language Course (FLC)	Physical Education (PE)	Vocational Practice (VP)	Directed Self-Study (DSS)	E-learning (EL)
Winter semester:													
Chair and Department of Hygiene (Dep. in charge of the course)													
Direct (contact) education ¹				30									

¹ Education conducted with direct participation of university teachers or other academics



Distance learning ²																			
Summer semester:																			
Chair and Department of Hygiene																			
Direct (contact) education ³																			
Distance learning ⁴																			
TOTAL per year:																			
Chair and Department of Hygiene (Dep. in charge of the course)																			
Direct (contact) education																			30
Distance learning																			
Educational objectives (max. 6 items)																			
C1. Basic knowledge of healthy lifestyle, work and learning, hand hygiene.																			
C2. To provide the students with knowledge of basic concepts in epidemiology, types of epidemiological phenomena and methods of examining them. Acquiring the ability of epidemiological study design, analyzing of epidemiological data and the use of epidemiological information for the evaluation of population health status.																			
C3. To understand the epidemiology of contagious and non-contagious diseases, principles of conducting an epidemiological inquiry and surveillance, and how to plan actions in the scope of disease prevention and health promotion.																			
C4. To make students aware of health risks (for patients and medical staff) related to health care settings.																			
C5. To understand the principles of nutrition and food hygiene. Knowledge of nutritional deficiencies and the importance of diet for the health. Food-borne diseases.																			
C6. Development social competences needed to practice the medical profession, in accordance with graduate's profile.																			
Education result for course in relation to verification methods of the intended education result and the type of class:																			
Number of detailed education result	Student who completes the course knows/is able to					Methods of verification of intended education results					Form of didactic class <i>*enter the abbreviation</i>								
E.W1.	Knows the environmental and epidemiological determinants of the most common diseases.					During the oral answers, presentations, written tests and exam student is able to indicated causes of the most frequent diseases development to allow for the influence of the environmental factors. Student is also able to analyze the conditions of the appearance of the disease epidemic caused by diseases in the population.					MC								
G.W1.	Knows methods for assessing the health status of individuals and populations, various systems of					During the oral answers, presentations, written tests and exam student can explain indicated issues eg. determine which factors					MC								

² Education with applied methods and techniques for distance learning

³ Education conducted with direct participation of university teachers or other academics

⁴ Education with applied methods and techniques for distance learning



	classifying diseases and medical procedures.	influence on the state of health of the population and the prevalence of diseases; determinate and calculate of the indicators of the status of population health /for given data/.	
G.W2.	Knows the means of identifying and investigating risk factors, the advantages and disadvantages of different types of epidemiological studies and the measures demonstrating the presence of a cause-and-effect relationship.	During the oral answers, presentations, written tests and exam student can explain indicated issues eg. on the basis of the given data and the indicated aim of research , it is able to plan an appropriate epidemiological study. discusses and / or recognizes the types of different epidemiological studies, gives their advantages and disadvantages, estimates the risk for the given data: calculates absolute risk, relative risk, odds ratio, atributable risk and gives interpretations of the obtained results.	MC
G.W3.	Knows the epidemiology of infectious and chronic diseases, ways of preventing their occurrence at different stages of the natural history of a disease and the role of epidemiological surveillance.	During the oral answers, presentations, written tests and exam student can explain indicated issues eg. interpret the given data, provide conclusions, and define the objectives of surveillance and epidemiological control.	MC
G.W4.	Knows the concept of public health, its objectives, tasks and the structure and organization of the health care system at national and global level, and the impact of economic conditions on health care capacity.	During the oral answers, presentations, written tests and exam student can explain indicated issues eg. discusses and / or recognizes examples of primary and secondary prevention; explains the importance of nutrition and lifestyle in the prevention and development of diseases.	MC
G.U1.	Is able to describe the demographic structure of the population and on this basis assess the health problems of the population.	During his own work and during classes, the student is able to use demographic and literature sources, presents a paper or a presentation on a given topic.	MC
G.U2.	Uses collected information on the presence of risk factors for infectious and chronic diseases and plan preventive actions at different levels of prevention.	During the oral answers, presentations, written tests and exam student can explain indicated issues eg. discuss the aetiology and risk factors of infectious diseases, explain the importance of factors that disrupt health (noise, exposure to toxins, heavy metals, vibrations, etc.). During classes /while working in groups / knows how to collect the right information and can conduct epidemiological interview for a given epidemiological problem.	MC



G.U3.	Interprets measures of the incidence of diseases and disabilities	During the oral answers, presentations, written tests and exam student can calculate, compare and interpret measures of the incidence of diseases and disabilities	MC
* L- lecture; SE- seminar; AC- auditorium classes; MC- major classes (non-clinical); CC- clinical classes; LC- laboratory classes; CSC- classes in simulated conditions; PCP- practical classes with patient; FLC- foreign language course; PE- physical education; VP- vocational practice; DSS- directed self-study; EL- E-learning			
Student's amount of work (balance of ECTS points):			
Student's workload (class participation, activity, preparation, etc.)		Student Workload	
1. Number of hours of direct contact:		30	
2. Number of hours of distance learning:		0	
3. Number of hours of student's own work:		51	
4. Number of hours of directed self-study		n/a	
Total student's workload		81	
ECTS points for course		4,5	
Content of classes: (please enter topic words of specific classes divided into their didactic form and remember how it is translated to intended educational effects)			
Lectures – not applicable			
Seminars – not applicable			
Classes			
Major classes – not clinical			
1MC. Hygiene and epidemiology. Definitions, targets, tasks. Determinants of health. Principles of health promotion and disease prevention. Population health indicators. (2 lesson hours =1h 30 min)			
2MC. Types of epidemiological studies. Causal inference. (2 lesson hours =1h 30 min)			
3MC. Calculation of epidemiological indicators. Measuring risk and risk assessment methods and odds ratio. Standardization. (2 lesson hours =1h 30 min)			
4MC. Epidemiology of infectious diseases. Proceedings in the outbreak of the epidemic. Prevention of infectious diseases. (2 lesson hours =1h 30 min)			
5MC. Occupational hazards to health (physical, chemical, biological); risk assessment. Occupational hazards at health care workplaces. (2 lesson hours =1h 30 min)			
6MC. Nosocomial infections - epidemiology. Hygiene measures for health professions workforce. Hand hygiene. Cleaning and disinfection. Disease of dirty hands - exercises using UV lamp. (2 lesson hours =1h 30 min)			
7MC. Principles of food hygiene. Energy demand, primary and secondary metabolism - calculation of the energy requirement of students. Disorders of the nutritional status and their impact on health. (2 lesson hours =1h 30 min)			
8MC. The role of life style and nutrition in the diseases development and prevention. Acquiring and applying knowledge of nutrition based on literature - exercises with the ability to use professional literature. (2 lesson hours =1h 30 min)			
9MC. Mental hygiene, its sources and ways of elimination; sleep hygiene; addictions. Social diseases: nicotine addiction, alcoholism, drug addiction (recognition, health effects, treatment and prevention). (2 lesson hours =1h 30 min)			
10MC. Water pollution - pathogen. Biological significance of water. The shortage of water in the world - statistics. The harmfulness of biological and chemical factors in the wastewater. Water treatment, water quality status indicators - interpretation of study results. (2 lesson hours =1h 30 min)			
11MC. Colloquium. (2 lesson hours =1h 30 min)			
12MC. Factors affecting health indoors. Sick buildings syndrome. (2 lesson hours =1h 30 min)			
13. Epidemiology of selected non-infectious diseases. Risk factors for these diseases. (2 lesson hours =1h 30 min)			



14MC. Occupational health and safety. Personal protection devices. Elements of ergonomics. (2 lesson hours =1h 30 min)
15MC. Classes allowing individual catch up due to absenteeism student. (2 lesson hours =1h 30 min) (2 lesson hours =1h 30 min)
Other – not applicable
<p>Basic literature (list according to importance, no more than 3 items)</p> <ol style="list-style-type: none"> 1. Bonita R., Beaglehole R., Kjellstrom T. Basic Epidemiology. 2nd ed. Geneva: World Health Organization; 2006 2. Population Health: Concepts and Methods. – T. Kue Young 2004 Oxford University Press 3. Lippmann M (ed.). Environmental Toxicants – Human Exposures and Their Health Effects. 3rd ed. Hoboken: John Wiley& Sons, Inc.; 2009 <p>Additional literature and other materials (no more than 3 items)</p> <ol style="list-style-type: none"> 1. European Centre for Disease Prevention and Control. Annual Epidemiological Report on Communicable Diseases in Europe 2010. Stockholm: ECDC; 2010 2. Epidemiology for Public Health Practice. – Robert H. Friis, Thomas Sellers, 2013, Jones & Bartlett Learning Snashall D., Patel D (eds.) ABC of Occupational and Environmental Medicine. 2nd ed. London: BMJ Publishing Group; 2003
<p>Preliminary conditions: (minimum requirements to be met by the student before starting the course)</p> <p>Basic knowledge of the medical statistics. Knowledge of human physiology and biology, basic knowledge of medical biochemistry.</p>
<p>Conditions to receive credit for the course: (specify the form and conditions of receiving credit for classes included in the course, admission terms to final theoretical or practical examination, its form and requirements to be met by the student to pass it and criteria for specific grades)</p> <p>Attention! Attendance can not be a condition for passing the course</p> <p>Each absence must be made up, including rector's days or dean's hours.</p> <p>Admission to the exam:</p> <ul style="list-style-type: none"> • Completion exercises - assessed individual activity, relationship to the subject and teaching staff, and colleagues. • Presence in all of seminars, alternatively: studying independently missing topics and making up the missing classes (no more than 2). • Active participation in seminars and group-work. • Positively passing all written colloquia. • Preparing and presenting at least 1 presentation concerning assigned topic. <p>Completion of the course <u>Hygiene and Epidemiology</u>: a positive result of the written test consisting of 60 questions – positive rating is 60% correct answers.</p>

Grade:	Criteria for courses ending with a grade ⁵
Very Good (5.0)	Presence at all classes or making up the missing classes (no more than 2), activity in classes, weighted average of partial grades (i.a. colloquies/short tests/presentations/oral answers): ≥ 4.75
Good Above (4.5)	Presence at all classes or making up the missing classes (no more than 2), activity in classes, weighted average of partial grades (i.a. colloquies/short tests/presentations/oral answers): 4.5 – 4.74
Good (4.0)	Presence at all classes or making up the missing classes (no more than 2), activity in classes, weighted average of partial grades (i.a. colloquies/short tests/presentations/oral answers): 4.0 – 4.4
Satisfactory Plus (3.5)	Presence at all classes or making up the missing classes (no more than 2), activity in classes, weighted average of partial grades (i.a. colloquies/short tests/presentations/oral answers): 3.5 – 3.9

⁵ The verification must cover all education results, which are realized in all form of classes within the course



Satisfactory (3.0)	Presence at all classes or making up the missing classes (no more than 2), weighted average of partial grades (i.a. colloquies/short tests/presentations/oral answers): 3.0 – 3.4
--------------------	---

Grade:	Criteria for exam ³
Very Good (5.0)	<p>EXPECTED KNOWLEDGE</p> <p>Knowledge of the issues raised in lectures and exercises. Knowledge of the basic literature textbooks. Knowledge of supplementary literature. Ease to move through the issues of hygiene and epidemiology. Use of applications and deriving solutions from the data source. Test result $\geq 92\%$ of correct answers</p>
Good Above (4.5)	<p>EXPECTED KNOWLEDGE</p> <p>Knowledge of the issues raised in lectures and exercises. Knowledge of the basic literature textbooks. Knowledge of supplementary literature. Ease to move through the issues of hygiene and epidemiology. Use of applications and deriving solutions from the data source. Test result 86% - 91% of correct answers</p>
Good (4.0)	<p>KNOWLEDGE INDICATED</p> <p>Knowledge of the issues raised in lectures and exercises. Knowledge of knowledge of the basic literature textbooks. Knowledge of supplementary literature. Test result 79% - 85% of correct answers</p>
Satisfactory Plus (3.5)	<p>KNOWLEDGE INDICATED</p> <p>Knowledge of the issues raised in lectures and exercises. Knowledge of knowledge of the basic literature textbooks. Knowledge of supplementary literature. Test result 71%-78% of correct answers</p>
Satisfactory (3.0)	<p>KNOWLEDGE REQUIRED</p> <p>Knowledge of the issues raised in lectures and exercises. Knowledge of knowledge of the basic literature textbooks. Test result 60%-70% of correct answers</p>

Department in charge of the course:	Chair and Department of Hygiene Faculty of Medicine, Wrocław Medical University
Department address:	7 J. Mikulicza-Radeckiego street, 50-345 Wrocław
Telephone:	+48717841502, F: +48717841503
E-Mail:	wl-10@umed.wroc.pl

Person in charge for the course:	dr hab. Paweł Gać, prof. UMW
Telephone:	71 784 15 01
E-Mail:	pawel.gac@umed.wroc.pl

List of persons conducting specific classes:

Name and surname	Degree/scientific or professional title	Discipline	Performed profession	Form of classes
Krystyna Pawlas	prof. dr hab.	Health Sciences	Academic teacher	MC
Martyna Hajac	doctor	Medical Sciences	Academic teacher	MC



Marek Tradecki	doctor	Medical Sciences	Academic Teacher	MC
Aleksandra Żórawik	physician	Medical Sciences	PhD student	MC
Karolina Czerwińska	physician	Medical Sciences	PhD student	MC

Date of Syllabus development

30.06.2021

Syllabus developed by

dr hab. Paweł Gać, prof. UMW

Signature of Head(s) of teaching unit(s)

Dean's signature


Wrocław Medical University
Faculty of Medicine
Vice Dean of English Studies...
prof. Beata Sobieszcańska, PhD


Uniwersytet Medyczny we Wrocławiu
KATEDRA I ZAKŁAD HIGIENY
kierownik
dr hab. n. med. Paweł Gać, prof. UMW

