

SYLLABUS

concerning the cycle of education 2019-2025

(date range)

1.1. BASIC INFORMATION CONCERNING THIS SUBJECT / MODULE

Subject / Module	Hygiene and epidemiology
Course code / module *	HE/G
Faculty of (name of the leading direction)	Faculty of Medicine, University of Rzeszow
Department Name	Department of Hygiene and Epidemiology
Field of study	medical direction
Level of education	uniform master's studies
Profile	practical
Form of study	stationary / extramural
Year and semester	year II, semester IV
Type of course	obligatory
Coordinator	
First and Last Name of the Teacher	Igor Radziewicz-Winnicki, MD, PhD, MBA

* - According to the resolutions of the Faculty of Medicine

1.2. Forms of classes, number of hours and ECTS

Lecture	Exercise	Conversation	Laboratory	Seminar	ZP	Practical	Self-learning	Number of points ECTS
15	-	-	-	30	-	-	-	4

1.3. The form of class activities classes are in the traditional form classes are implemented using methods and techniques of distance learning**1.4. Examination Forms / module (exam, credit with grade or credit without grade)****2. REQUIREMENTS**

Basic information in the field of biology

3. OBJECTIVES, OUTCOMES, AND PROGRAM CONTENT USED IN TEACHING METHODS**3.1. Objectives of this course/module**

C1	Transfer of basic knowledge about environmental conditions of individual and population health and basic principles of epidemiological analysis over human community.
C2	Preparation for recognizing the health effects caused by harmful biological, chemical and physical factors related to the work environment and human existence, as well as familiarizing with the health hazards present at work and the principles of prophylaxis of workplace infections.
C3	Transfer of knowledge about the epidemiological situation of selected infectious and non-infectious diseases in the country, in Europe and in the world.
C4	Awareness of the occurrence of epidemiological threats and bioterrorism.
C5	Developing the ability to interpret available demographic and epidemiological data, assessing the scale of health and demographic phenomena in Europe.
C6	Acquainting with the principles of planning and carrying out epidemiological research (clinical-control, cohort, cross-sectional, ecological, experimental, descriptive).
C7	Teaching how to interpret the results of epidemiological studies.
C8	Transfer of knowledge about the basic methods of prevention and health promotion.
C9	Shaping the understanding of the need to care for our own safety and patients, society.

3.2 OUTCOMES FOR THE COURSE / MODULE (TO BE COMPLETED BY THE COORDINATOR)

EK (the effect of education)	The content of the learning effect defined for the subject (module)	Reference to directional effects (KEK)
EK_01	Student knows the methods of assessing the health of an individual and population, different classification systems for diseases and medical procedures	G.W1.
EK_02	Student knows methods of identification and testing of risk factors, defects and the benefits of different types of epidemiological studies and measures demonstrating the presence of a causal relationship	G.W2.
EK_03	Student knows the epidemiology of infectious and chronic diseases, ways to prevent their occurrence at various stages of the natural history of disease and the role of epidemic surveillance	G.W3.
EK_04	Interprets measures of the incidence of disease and disability, assesses the epidemiological situation of diseases commonly found in the country	G.W13.
EK_05	Describes the demographic structure of the population and on this basis assesses the health problems of the population.	G.U1.

3.3 CONTENT CURRICULUM (filled by the coordinator)

Date	Lecture	seminar
6 March	Introduction into Hygiene and Epidemiology, a brief history of hygiene and epidemiology	COVID19
13 March	Basic definitions and Measures of Disease Occurrence	Global health status.
20 March	Globalization and health. Epidemiological and Demographic Transition.	Alcohol consumption in Europe
27 March	Epidemiology of Infectious diseases	Viral Hepatitis , Zoonoses, and other – according to students choice
3 April	Nosocomial infections	Guidelines for prevention of hospital acquired infections. antimicrobial resistance
17 April	Screening for Disease in the Community	Screening programmes in public health practice
24 April	Migrations and health.	Unintended injuries
8 May	Bioterrorism	Global burden of illicit drugs
15 May	-	Epidemiology of cancer diseases
22 May	-	Sexually Transmitted Infections

3.4 TEACHING METHODS

Lecture: lecture with multimedia presentation

Seminar: individual work at the computer in the field of data search using appropriate databases, group work, discussion, problem solving.

4 METHODS AND EVALUATION CRITERIA

4.1 Methods of verification of learning outcomes

Symbol of effect	Methods of assessment of learning outcomes (Eg.: tests, oral exams, written exams, project reports, observations during classes)	Form of classes
EK_01	knows methods for assessing the health of an individual and population, various systems for classifying diseases and medical procedures	Seminars
EK_02	knows methods of identification and testing of risk factors, advantages and disadvantages of various types of epidemiological studies and measures demonstrating the presence of causality	Seminars
EK_03	knows the epidemiology of infectious and chronic diseases, ways to prevent their occurrence at various stages of the natural history of the disease and the role of epidemic surveillance	Lectures, Seminars

EK_04	interprets measures of disease incidence	Lectures, Seminars
EK_05	and disability, assesses the epidemiological situation of diseases commonly found in the country	Seminars

4.2 Conditions for completing the course (evaluation criteria)

<p>Lecture (EK_03, EK_04.)</p> <p>Seminar (EK_01, EK_02, UK_03, EK_04, EK_05)</p> <p>Passing knowledge using the multiple-choice test / MCQ /</p> <p>Passing skills: correct execution of a practical task.</p> <p>Conditions for passing the subject</p> <ol style="list-style-type: none"> 1. Presence on all forms of education. 2. A student may leave only one exercise, one lecture, one seminar (one absence not justified on any form of education), while absences justified with an unjustified student may not exceed 50% of the number of hours conducted in all forms of classes. 3. In the event of unexcused absences and justified absence (medical exemptions, dean's dismissals, documented random accidents), the student is obliged to include knowledge in the form and in the manner indicated by the person conducting the classes. 4. Obtaining a pass (without evaluation) of lectures, exercises and seminars in the scope of the program content provided for the exercises and seminars. 5. Getting a pass (without evaluation) of practical tasks within the scope of the program content provided during the seminars and exercises. 6. Passing the test for a minimum of sufficient. Positive assessment on the test is obtained by a student who has obtained at least 60% of points. 7. In order to verify the effects of education on the exam, the multiple-choice / MCQ / test method is used. For each correct answer, the student gets one point. Points for incorrect answers are not deducted. The following scale is used when issuing grades: <ul style="list-style-type: none"> 60-67% - grade 3.0; 68-74% - score 3.5; 75-82% - score 4.0; 83-90% - score 4.5; 91-100% - rating 5. 8. Unexcused absence during the examination will result in entering the unsatisfactory grade into the protocol. 9. Absence from the test pass may be justified only by dismissal of medical or rector, dean presented to the manager or the course coordinator within 7 days from the date of the examination.
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5. Total student workload required to achieve the desired result in hours and ECTS credits

Activity	Hours / student work
Hours of classes according to plan with the teacher	45
Preparation for classes	40
Participation in the consultations	-
The time to write a paper / essay	-
Preparation for tests	33
Participation in colloquia	2
Other (e-learning)	
SUM OF HOURS	120
TOTAL NUMBER OF ECTS	4

6. TRAINING PRACTICES IN THE SUBJECT / MODUL

Number of hours	-
Rules and forms of apprenticeship	-

6. LITERATURE

READING:

1. Handbook of epidemiology, Ed. W. Ahrens, I. Pigeot, 2nd Ed. Springer 2014
2. Basic epidemiology. Ed.: R. Bonita, R. Beaglehole, T. Kjellström. 2nd edition. World Health Organization 2006
3. International Public Health: Diseases, Programs, Systems and Policies. Ed. M.Merson, R.Black, A.Mills. 4th Edition, Jones & Bartlett Learning 2020
4. R.Friis, T. Sellers: Epidemiology for Public Health Practice, 3.Ed., Jones and Bartlett Publishers, Boston2004
5. An Introduction to Epidemiology for Health Professionals, Ed. J. Olsen, K. Christensen, J. Murray, A. Ekbom, Springer 2010
6. www.who.int
7. www.ecdc.europa.eu
8. www.cdc.gov

Additional literature:

1. Epidemiology. Key to Public Health, Ed.: K Krickeberg, P Trong, P My Hanh, Second Edition, Springer 2019