



48SJO-HAEPI
ECTS: 2.00
CYCLE: 2024

Course syllabus - part A Hygiene and Epidemiology

SUBJECT MATTER CONTENT

LECTURE

Introduction to the subject. Basic concepts and definitions in hygiene and epidemiology. Goals and tasks of hygiene and epidemiology in population health protection. The human ecosystem. Physical, chemical, biological factors and the human body. Food safety supervision. Occupational diseases and work environment. Health and disease. Population health measures. Classification of diseases and medical procedures. Sources of information on the health status of the community. Epidemiological studies and their characteristics. Basics of demography and demographic characteristics of the population that are important in epidemiological analyses. Chronic diseases and their effects. Epidemiology of selected non-communicable diseases. Basics of epidemiology of infectious diseases. Infectious agents and methods of their transmission. Health care-associated infections. Infection prevention and control. Standard safety measures used to prevent the transmission of infections. Epidemiological surveillance and hazard analysis. Endemics, epidemics and pandemics and the role of WHO and ECDC. The threat of bioterrorism.

SEMINAR

: (1) Detailed discussion of the curriculum and course regulations. Types of epidemiological studies in selected examples of literature. Advantages and limitations of particular types of epidemiological studies and measures proving the presence of cause-and-effect relationships. (2) Selecting the appropriate type of study depending on the epidemiological problem being studied and planning the project of epidemiological study of the selected non-communicable disease. Risk factors and causes of diseases. Conclusions about risk factors, etiology and prevention of selected non-communicable diseases. (3) Epidemiological analysis of food poisoning (most common etiological factors, development of a data collection questionnaire, construction and interpretation of the table of incidence rates, epidemiological inference). (4) Epidemic action plan. Hospital epidemic outbreak. Epidemiological study of an outbreak of a selected infectious disease. Based on the data obtained, establishing an immediate and long-term action plan to cut the spread of an infectious disease. (5) Chemical and biological weapons - epidemiological procedures, anti-epidemic activities and rules for eliminating the effects of such events. New biological threats related to bioterrorism.

TEACHING OBJECTIVE

The objectives of "Hygiene and Epidemiology" course include: learning the basic conditions and factors affecting health, identifying risk factors for disease occurrence, critical interpretation of the selection of appropriate epidemiological studies, ability to plan an epidemiological study project, assessment of the epidemiological situation of selected infectious and non-communicable diseases, prevention of infections transmission and knowledge of anti-epidemic actions. The student should acquire knowledge, skills and attitudes outlined by the subject matter including issues and activities carried out during the teaching process. Classes in

Legal acts specifying learning outcomes:
311/2023

Disciplines: medical sciences

Status of the

course:Obligatoryjny

Group of courses:A -

przedmioty podstawowe

Code: ISCED 0912

Field of study:Medicine

Scope of education:

Profile of education:

General academic

Form of studies: full-time

Level of studies: uniform

master's studies

Year/semester: /2

Types of classes: Lecture,
Seminar

Number of hours in semester:Lecture: 20.00,
Seminar: 10.00

Language of instruction:English

Introductory subject: -

Prerequisites: -

Name of the organisational unit conducting the course:Katedra Medycyny

Ratunkowej

Person responsible for the realization of the course:dr

n. med. Rakesh Jalali

e-mail:

rakesh.jalali@uwm.edu.pl

Additional remarks: -

the subject "Hygiene and Epidemiology" are intended to help understand the influence of the environment on human health, concept of causality, rules concerning formation, spread and prevention of diseases and their impact on the health of the population. Additionally, the aim of the education is to develop the desired personality traits of the Student, shape ethical attitudes and the obligation of continuous self-education.

DESCRIPTION OF THE LEARNING OUTCOMES OF THE COURSE IN RELATION TO THE DESCRIPTION OF THE CHARACTERISTICS OF THE SECOND LEVEL LEARNING OUTCOMES FOR QUALIFICATIONS AT LEVELS 6-8 OF THE POLISH QUALIFICATION FRAMEWORK IN RELATION TO THE SCIENTIFIC DISCIPLINES AND THE EFFECTS FOR FIELDS OF STUDY:

Symbols for outcomes related to the discipline:

M/NMA_P7S_WG+++ , M/NMA_P7S_KR+

Symbols for outcomes related to the field of study:

G.W1.+ , G.W2.+ , K.5.+ , KA7_KR1+ , G.U1.+ , B.U12.+ , G.U3.+ , G.W3.+

LEARNING OUTCOMES:

Knowledge:

W1 - W1.methods of assessing the health of an individual and population, various systems of classifying diseases and medical procedures

W2 - W2.methods of identifying and examining risk factors, advantages and disadvantages of various types of epidemiological studies and measures proving the presence of cause-and-effect relationships

W3 - W3. epidemiology of infectious and chronic diseases, methods of preventing their occurrence at various stages of the natural history of the disease and the role of epidemiological surveillance

Skills:

U1 - U1.explain the differences between prospective and retrospective studies, randomized and case-control studies, case reports and experimental studies, and rank them according to the reliability and quality of scientific evidence

U2 - U2.describe the demographic structure of the population and, on this basis, assess the health problems of the population

U3 - U3.interpret measures of disease and disability incidence

Social competence:

K1 - K1.noticing and recognizing one's own limitations and self-assessing educational deficits and needs

K2 - K.2observe and apply the principles of academic and professional ethics and professional image, academic, social and professional professionalism

TEACHING FORMS AND METHODS:

Lecture(W1;W2;W3;U1;U2;U3;K1;K2;):informative lecture combined with elements conversation lecture

Seminar(W1;W2;W3;U1;U2;U3;K1;K2;):elements of problem-based learning, conversation guided discussion, activating methods of graphic recording.

FORM AND CONDITIONS OF VERIFYING LEARNING OUTCOMES:

Lecture (Part in the discussion) - credit based on active participation students in lectures and monitoring attendance in classes in accordance with subject regulations. -

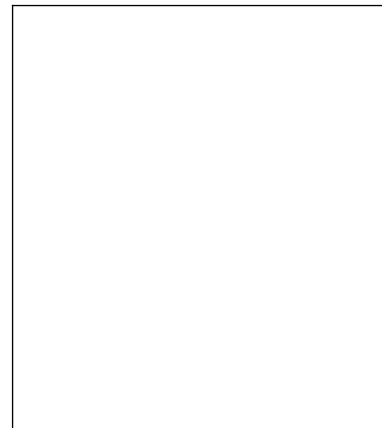
Seminar (Part in the discussion) - pass based on the regulations subject,

based on activity and preparation for classes in accordance with the given topic, literature and possible suggestions obtained from the instructor and based on the knowledge acquired on lectures and seminars attended -

Seminar (Competention test) - The assessment is based on test prepared based on closed and/or open questions - The condition for passing the test is obtaining at least 60% -

BASIC LITERATURE:

SUPPLEMENTARY LITERATURE:



Detailed description of ECTS credits awarded - part B

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Hygiene and Epidemiology

The number of ECTS credits awarded consists of:

1. Contact hours with the academic teacher:

| | |
|-----------------------------|----------------|
| - participation in: Lecture | 20.0 h |
| - participation in: Seminar | 10.0 h |
| - consultation | 2.0 |
| | Total: 32.0 h. |

2. Independent work of a student:

18.00 h

Total: 18.0 h

contact hours + independent work of a student Total: 50.0 h

1 ECTS credit = 25-30 h of an average student's work, number of ECTS credit = 50.0 h : 25.0 h/ECTS
= 2.00 ECTS on average: 2.0 ECTS

- including the number of ECTS credits for contact hours with the direct participation of an academic teacher: 0,00 ECTS points,

- including the number of ECTS credits for hours of independent work of a student: