[Medicinski fakultet u Rijeci]

Curriculum
2022/2023

[Za kolegij]

Epidemiology

Study program:	**Medical Studies in English (R)** [Sveučilišni integrirani prijediplomski i diplomski studij]
Department:	**[Katedra za socijalnu medicinu i epidemiologiju]**
Course coordinator:	**prof. prim. dr. sc. Kolarić Branko, dr. med.**
Year of study:	**5**
ECTS:	**3.5**
Incentive ECTS:	**0 (0.00%)**
Foreign language:	**Possibility of teaching in a foreign language**

Course information:

Epidemiology is a compulsory course in the 5th year of the Integrated undergraduate and graduate university study of Medicine in English held in the twelfth semester. It comprises 30 hours of lectures, 15 hours of seminars, and 15 hours of practicals, totaling 60 class hours (3.5 ECTS credits).

The aim of the course is to prepare the students for professional jobs and tasks based on the acquired knowledge of epidemiology, as they will participate as doctors of medicine in the control and prevention of diseases (primary, secondary and tertiary prevention of communicable and chronic mass diseases). It implies knowledge of the foundations of the epidemiological characteristics of communicable and chronic mass diseases, understanding disease prevention and control measures, and anti-epidemic measures and their role in these affairs,

Course content: students will be introduced to the organization and functioning of the epidemiological service and the ways sanitary-epidemiological unit communicate with other healthcare teams, primarily in the field of early alerting and reporting of diseases and health conditions, on-scene interventions, population screening programs, sampling, and other disease control and prevention measures in the population. Students will be familiarized with the epidemiology of infectious and non-infectious diseases and statistical data processing in epidemiology.

COURSE LEARNING OUTCOMES:

I. COGNITIVE DOMAIN – KNOWLEDGE

Students will:

• be trained for future participation in the epidemiological information system

• be familiarized with their obligations under the Law on the Protection of the Population from Infectious Diseases

• be able to identify unusual groupings or epidemics of diseases and other unexpected events

• be able to identify risk factors for diseases in their patients and apply general measures to prevent mass diseases

• be able to recognize the importance of prevention measures such as vaccination and early detection of chronic mass diseases in the population

• be able to explain preventive and anti-epidemic disinfection, disinsection and deratization

• acquire basic knowledge of interventional epidemiology, epidemiological diagnostics, chemoprophylaxis, and seroprophylaxis

• be able to apply this knowledge in practical work.

II. PSYCHOMOTOR DOMAIN – SKILLS

In classes, students will demonstrate the calculation of measures of association and measures of occurrence in epidemiological data processing, which they will be able to apply and perform later in their practice. Knowledge of basic scientific-analytical epidemiology, epidemiological methods, and epistemology of epidemiology will serve students as a basis for future scientific work (critical analysis of knowledge, interpretation of bias in research, analysis of research limitations).

Teaching: The course is taught at the Faculty of Medicine, University of Rijeka and the Institute of Public Health of the Primorje-Gorski Kotar County. Lectures, seminars, and practicals are conducted using a PowerPoint presentation. Seminars and practicals require active student participation. Students must prepare in advance for certain practical and seminar classes

The student is required to prepare the material being discussed concerning attitudes toward vaccination. Students will be divided into two groups, one of which will advocate against vaccination and the other for vaccination. The debate will be mentored by the teacher. Attitudes for/against vaccination will be supported by data from professional and scientific literature.

The teacher evaluates student participation during seminar classes (demonstrated knowledge, comprehension, problem-solving skills, reasoning, etc.). The teacher assesses student participation during seminar and practical classes, as well as connection and synthesis of prior knowledge adopted in previous lectures. Students should explain and substantiate a particular topic being covered.

List of assigned reading:

1. Gordis L. Epidemiology. 6th edition. Elsevier Saunders. 2018.

2. Heyman DL. Control of Communicable Diseases Manual. American Public Health Association.

List of optional reading:

1. Rothman JK, Greenland S, Lash TL. Modern Epidemiology. Lippincot Williams and Wilkins. 2012.

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Student obligations:

Students are required to attend regularly and actively participate in all forms of classes. In case the student is prevented from attending classes, they should have proof of a justifiable reason. Students are required to bring a notebook, a pen, and a calculator at seminars and practicals.

Exam (exam taking, description of the written/oral/practical part of the exam, point distribution, grading criteria):

Evaluation method (ECTS credit system):

In accordance with the Ordinance on Student Assessment and Evaluation at the Faculty of Medicine in Rijeka, students will be assessed and evaluated during classes and on the final exam. Out of a total of 100 grade points (100%), the student can obtain a maximum of 55 points (55%) during classes and a maximum of 45 points (45%) on the final exam.

I. The following is evaluated during classes (maximum 55 points):

a) acquired knowledge evaluated by a test during classes (45 grade points)

b) active participation and knowledge demonstrated at classes (10 grade points)

To access the final exam, the student must obtain a minimum of 50% (28 grade points) during classes. If the student doesn't obtain a sufficient number of grade points during classes to access the final exam (less than 28 grade points from the test and class participation together) or isn't satisfied with the grade points obtained on tests during classes, they must take the make-up written exam with the next group of students.

II. Final exam (maximum 45 points)

The final exam is an oral examination. The final exam consists of three questions, each of which is evaluated with a maximum of 15 grade points (maximum 45 grade points). A student who obtains less than half of the grade points on the final exam (less than 23 grade points) cannot receive a final grade higher than F (insufficient). If a student obtains 23 or more grade points on the final exam, these grade points are added to the grade points (percentages) obtained during classes. The final grade is formed according to the table below.

III. Final grade

is the sum of ECTS grade points obtained during classes and on the final exam. It is determined based on the absolute distribution:

Percentage of acquired knowledge, skills and competencies (classes + final exam)	Numerical grade	ECTS grade
90–100%	5 (excellent)	A
75–89.9%	4 (very good)	B
60–74.9%	3 (good)	C
50–59.9%	2 (sufficient)	D
0–49.9% - or less than half of the grade points possible to obtain during class - or less than half of the grade points possible to obtain on the final exam	1 (insufficient)	F

Other notes (related to the course) important for students:

Students will choose their representative, who will contact the course coordinator and solve possible problems regarding teaching and course organization. If the student representative cannot resolve an issue with the coordinator, they will contact the course leader. The student representative will take care of the timely exam registration for the whole group and will organize and manage the collection and distribution of the index documents (grade record sheets) after the final exam.

COURSE HOURS 2022/2023

Epidemiology

List of lectures, seminars and practicals:

EXAM DATES (final exam):