SYLLABUS

Name: <u>Medical microbiology (25-BI-S2-W-MM-AN)</u>

Name in Polish: <u>Mikrobiologia medyczna</u>
Name in English: <u>Medical microbiology</u>

Information on course:

Course offered by department: Faculty of Biological Sciences
Course for department: Faculty of Biological Sciences

Default type of course examination report:

Grading

Language:

English

Short description:

Prereguisites regarding knowledge, skills, and social competences for the course/module:

The student has basic knowledge in the field of biological sciences, mainly microbiology, genetics and immunology; uses biological terminology, with particular emphasis on microbiological vocabulary; applies the principles of sterility and sterile work in the cultivation of microorganisms; appreciates the role of microbiology in environmental and health protection.

Student's own work:

- preparing for classes: 50h

- reading scientific literature: 25h

Description:

Educational aims:

Presentation of the most important human bacterial pathogens and methods used in laboratory diagnostics.

Course content:

Clinical diagnostics, bacterial virulence factors, taxonomy and overview of the major human bacterial pathogens, antibiotics and mechanisms of bacterial resistance to antibiotics.

Bibliography:

Mandatory and recommended reading list:

Brock Biology of Microorganisms. Twelfth Edition. Pearson BenjaminCummings. 2009 (selected chapters)

Bacterial Infections of Humans, Epidemiology and Control, Fourth Edition, Brachman & Abrutyn, Springer 2009 (selected chapters)

Learning outcomes:

Intended learning outcomes

Student:

Knowledge:

K W10

knows what basic diagnostic methods are used in medical microbiology;

K_W01, K_W06

defines the characteristics determining the virulence of microorganisms;

K_W01

knows the most common human pathogens and their pathogenicity;

K W06

gives examples of bacterial drug resistance mechanisms.

Skills:

K U01

uses the media most commonly used in routine microbiological diagnostics;

K_U04

uses methods to determine the sensitivity of pathogenic bacteria to antibiotics.

K UNE

identifies basic microorganisms belonging to the most common human pathogens; analyzes the basic mechanisms of microbial resistance to antibiotics;

Competence:

K K02

is open to working in a team.

K K03

acts in accordance with the basic rules applicable when working with potentially infectious material;

USOSweb: Szczegóły przedmiotu: 25-BI-S2-W-MM-AN, w cyklu:
brak>, jednostka dawcy:
brak>, grupa przedm.:
brak>

Assessment methods and assessment criteria:

Assessment methods for the intended learning outcomes:

- written test,
- practical tests

Credit requirements for individual components of the course/module:

- continuous control of attendance and progress in the subject of classes,
- writing a class report,written test.

Course credits in various terms:

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Type of credits	Number	First term	Last term
European Credit Transfer System (ECTS)	4	2024/25-Z	

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