
Course title: MICROBIOLOGY AND PARASITOLOGY- NURSING

ECTS credit allocation (and other scores): 2

Semester: spring

Level of study: ISCED-6 - first-cycle programmes (EQF-6)

Branch of science: Medical and health sciences

Language: English

Number of hours per semester: 52 h (25h Classes, 10h Lectures, 15h Self-Education, 2h consultations)

Course coordinator/ Department and e-mail: prof. Ewa Dzika/ Department of Medical Biology, e.dzika@uwm.edu.pl

Type of classes: classes and lectures

Substantive content

CLASSES: Principles of aseptic and antiseptic treatment in nursing and healing work. Methods of collecting and sending materials for microbiological tests. Principles of prevention of infectious diseases in everyday life and at work. Pathogenesis, pathways of the spread of microorganisms in the body, elements of immunology and epidemiology of infectious diseases, prevention of infectious diseases. Characteristics (structure, reproduction, life cycle, pathogenicity, diagnostics) of human parasites living in the alimentary, circulatory, respiratory, nervous and genitourinary systems as well as parasites of the muscles and organs of the parenchyma and skin belonging to: Protozoa, Digenea, Cestoda, Nematoda, Arachnida, Insecta.

LECTURES Introduction to parasitology. The environment of parasites. The most important cosmopolitan, opportunistic parasites and diseases caused by them. Tropical diseases. Parasitic and allergenic arthropods as carriers of infectious and invasive diseases. Methods used in the diagnosis of parasitic diseases. Characterization of bacteria, viruses and fungi.

Learning purpose: Acquiring knowledge of the basic microbiology and parasitology definitions. Acquiring the skills of microbiological and parasitological diagnosis and diagnostic as well as collecting material for research. Acquiring with mechanisms of pathogenicity and ways of parasites spreading.

On completion of the study programme the graduate will gain:

Knowledge: W1 (A.W17; M/NM_P6S_A.W17) - The student differentiates the epidemiology of viral, bacterial and fungal infections, as well as parasitic infections, taking into account the geographical extent of their occurrence; W2 (A.W18; M/NM_P6S_A.W18) - The student defines basic concepts in the field of microbiology and parasitology.

Skills: U1 (A.U6; M/NM_P6S_A.U6) - Student recognizes the most common human parasites on the basis of their structure, life cycles and disease symptoms.

Social Competencies: K1 (KP6_KO2; M/NM_P6S_KO1) - Systematically enriches professional knowledge and shapes skills, striving for professionalism; K2 (KP6_KK1; M/NM_P6S_KK1) - The student respects the patient's rights; K3 (KP6_KR2; M/NM_P6S_KR1) - The student reliably performs assigned professional duties.

Basic literature: Buczek A. „Parasitology for medical students”, Koliber, Lublin 2007, 2011.

Supplementary literature: 1) L. Sh. Garcia „Diagnostic medical parasitology”, Washington, D. C. ASM Press 2007; 2) <http://www.cdc.gov/>; 3) <http://www.who.int/tdr/>

The allocated number of ECTS points consists of:



Contact hours with an academic teacher: - participation in: classes without academic teacher participation 15h

- participation in: classes 25h

- participation in: lecture 10h

- consultation 2h

Totally: 52h

Student's independent work: - an independent study (self-education) on a given microbiological and parasitological subject to final short test 3h

- preparation for classes 5h

- preparation for theoretical and practical colloquium 5h

Totally: 13h