
Course title: HISTOLOGY WITH CYTOPHYSIOLOGY AND EMBRYOLOGY

ECTS credit allocation (and other scores): 5

Semester: spring

Level of study: ISCED-7 - second-cycle programmes (EQF-7)

Branch of science: Medical and health sciences

Language: English

Number of hours per semester: 60

Course coordinator/ Department and e-mail: Prof. Zbigniew Kmiec, MD, PhD, DSc / Department of Human Histology and Embryology wnm.histologia@uwm.edu.pl

Type of classes: classes and lectures

Substantive content

CLASSES: Kidney and urinary tract. Female reproductive system. Male reproductive system. Blood. Bone marrow. Hematopoiesis. Histology of lymphatic organs. Oral cavity, teeth, salivary glands, esophagus. Stomach, small intestine, large intestine, appendix. Liver and bile ducts, pancreas. Endocrine system. Special senses – eye and ear. Skin and mammary gland.

LECTURES: Blood (composition and function of plasma, blood cells ultrastructure and functions) and bone marrow. Hematopoiesis (erythropoiesis, myelopoiesis, platelet formation). Histology and functions of lymphatic organs. Histology of esophagus, stomach, intestines. Histology and functions of liver, bile ducts and pancreas. Histology and functions of endocrine glands and diffuse neuroendocrine system. Histology of special senses – eye and ear.

Learning purpose: To introduce students into the knowledge of the structures of human body cells, tissues, and organs and their functions.

On completion of the study programme the graduate will gain:

Knowledge: The knowledge of the structures of human body cells, tissues, organs and their functions.

Skills: Recognition of structures corresponding to organs, tissues, and cells in optical or electron microscopic images.

Social Competencies: Noticing and recognizing own limitations and self-assessment of deficits and educational needs.

Basic literature: A. L. Mescher, Junqueira's Basic Histology: Text and Atlas, 15th Edition, McGraw-Hill Lange, 2018;

Supplementary literature: L.P. Gartner, Textbook of Histology, 4th edition, Elsevier, 2016; A. L. Kierszenbaum, L. Tres, Histology and Cell Biology, 5th edition, Elsevier, 2020; N. Chandar, S. Viselli, Cell and Molecular Biology, Wolters Kluwer, 2018 ; M.H. Ross, W. Pawlina, T.A. Barnash, Atlas of Descriptive Histology, Sinauer, 2009.

The allocated number of ECTS points consists of:

Contact hours with an academic teacher: 65

Student's independent work: 60