

DESCRIPTION OF THE COURSE OF STUDY

Course code	0912.7.LEK.B.H	
Name of the course in	Polish	Histologia i ultrastruktura komórki
	English	Histology and cell ultrastructure

1. LOCATION OF THE COURSE OF STUDY WITHIN THE SYSTEM OF STUDIES

1.1. Field of study	medicine
1.2. Mode of study	full-time
1.3. Level of study	uniform Master's study
1.4. Profile of study*	General academic
1.5. Person/s preparing the course description	dr Agnieszka Radowicz-Chil,
1.6. Contact	agnieszka.radowicz-chil@ujk.edu.pl

2. GENERAL CHARACTERISTICS OF THE COURSE OF STUDY

2.1. Language of instruction	English
2.2. Prerequisites*	

3. DETAILED CHARACTERISTICS OF THE COURSE OF STUDY

3.1. Form of classes	Lectures (Lec):, Classes (C):, Laboratories (L)	
3.2. Place of classes	Courses in the teaching rooms of UJK	
3.3. Form of assessment	Exam Credit with grade	
3.4. Teaching methods	Lecture Classes: Presentation and explanation of histological preparations Practical classes Laboratories: Microscopy of human tissues and organs	
3.5. Bibliography	Required reading	Stevens & Lowe's Human Histology James S. Lowe, Peter G. Anderson, Susan I. Anderson 2024
	Further reading	Gartner, L. P., & Hiatt, J. L. (2021). Color Textbook of Histology. Ross, M. H., & Pawlina, W. (2020). Histology: A Text and Atlas.

4. OBJECTIVES, SYLLABUS CONTENT AND INTENDED LEARNING OUTCOMES

4.1. Course objectives (including form of classes)

Lectures

- C1. Students will understand the fundamental principles underlying the microscopic structure and function of the human body.*
C2. Students will learn the interrelationship between different organs and systems at the microscopic levels.
C3. Students will be able to integrate theoretical knowledge to explain histological structures in relation to understand basis of disease

Classes

- C1. Develop the ability to analyze and discuss selected topics in histology*
C2. Apply theoretical knowledge to problem-solving and case analysis.
C3. Describe the microscopic organization of different organs and systems in relation to their function.

Practical Classes

- C1. Acquire skills in identifying histological structures on digital slides.*
C2. Learn techniques for preparing and examining microscopic slides.
C3. Develop practical competence in linking structure to function through laboratory experiments and demonstrations.

4.2. Detailed syllabus (including form of classes)

Lectures

General Histology of Cells and Tissues

Introduction to histology: definition, methods, and significance.

The cell: structure, organelles, and basic functions.

Overview of basic tissues:

Epithelial tissue: types, structure, and functions.

Connective tissue: types, components, and special connective tissues.

Muscle tissue: classification, structure, and contractile mechanisms.

Nervous tissue: neurons, neuroglia, and synapses.

Systemic Histology (Microscopic Anatomy of Organs)

Histological structure and organization of major organ systems:

Integumentary system

Circulatory system (heart, vessels)

Lymphoid organs

Digestive system and accessory glands

Respiratory system

Urinary system

Male and female reproductive systems

Endocrine glands

Nervous system and special sense organs

Classes

Practical Classes

General Histology of cells and tissues

Systemic Histology (Microscopic Anatomy of Organs)

Laboratories

Identification and labeling of slides and digital slides covering:

Basic tissues (epithelium, connective, muscle, nerve)

Organs of all major systems

4.3 Intended learning outcomes

Code	A student, who passed the course	Relation to learning outcomes
within the scope of KNOWLEDGE:		
W01	...Human anatomy topographically and functionally, including topographical relations between individual organs along with anatomical, histological and embryological terminology in Polish and English;	A.W1.
W02	...Knows the basic cellular structures and their functional specifications;	A.W2.
W03	...Microarchitecture of tissues, extracellular matrix and organs;	A.W3.
within the scope of ABILITIES:		

U01	...Operate the optical microscope, also making use of immersion	A.U1.
U02	...Recognize histological structures of organs, tissues, cells and cellular structures on the optical or histological microscope images, describe and interpret the structure and relations between the structure and the function;	A.U2.
within the scope of SOCIAL COMPETENCE:		
K01	... Recognize his/her own limitations and self-evaluate educational deficiencies and needs;	K.S5.
K02	... Use reliable information sources;	K.S7.
K03	... Conclude on the basis of own surveys and observations;	K.S8.
K04	... Introduce rules of social conduct and teamwork to the group of specialists, including specialists from other medical professions also in the multicultural and multinational environment;	K.S9.
K05	Give opinions concerning various aspects of professional activity	K.S10.
K06	... Take responsibility for own decisions made during professional activities including own safety and safety of other people.	K.S11.

4.4. Methods of assessment of the intended learning outcomes																																				
Teaching outcomes (code)	Method of assessment (+/-)																																			
	Exam oral/written*				Test*				Project*				Effort in class*				Self-study*				Group work*				Others* e.g. standardized test used in e-learning											
	Form of classes				Form of classes				Form of classes				Form of classes				Form of classes				Form of classes															
	L	C	P	C	L	C	P	C	L	C	P	C	L	L	C	P	C	L	L	C	P	C	L	L	C	P	C	L	L	C	P	C	L	L	C	P
W01	+				+																															
W02	+				+																															
W03	+				+																															
U01																																				
U02																																				
K01-K06																																				

*delete as appropriate

4.5. Criteria of assessment of the intended learning outcomes		
Form of classes	Grade	Criterion of assessment
Lecture (L)	3	Learning programme content on the basic level, replies chaotic, leading questions necessary 61%68%
	3,5	Learning programme content on the basic level, answers systematized, requires assistance from the teacher 69%-76%
	4	Learning programme content on the basic level, answers systematized, independent. Solving of problems in typical situations 77%-84%
	4,5	The scope of presented knowledge exceeds the basic level based on the supplementary literature provided. Solving of problems in new complex situations 85%-92%
	5	The scope of presented knowledge exceeds the basic level based on independently acquired scientific sources of information 93%-100%
Classes (C)	3	Receiving from 60% - 68% the total number of points obtained from each partial test
	3,5	Receiving from 69% - 76% the total number of points obtained from each partial test
	4	Receiving from 77% - 84% the total number of points obtained from each partial test
	4,5	Receiving from 85% - 92% the total number of points obtained from each partial test
	5	Receiving from 93% - 100% the total number of points obtained from each partial test
Practical classes (PC)	3	Obtaining 61%-68% correct answers at colloquium test
	3,5	Obtaining 69%-76% correct answers at colloquium test
	4	Obtaining 77%-84% correct answers at colloquium test
	4,5	Obtaining 85%-92% correct answers at colloquium test
	5	Obtaining 93%-100% correct answers at colloquium test
Laboratories (L)	3	Receiving from 60% - 68% the total number of points obtained from final test
	3,5	Receiving from 69% - 76% the total number of points obtained from final test

	4	Receiving from 77% - 84% the total number of points obtained from final test
	4,5	Receiving from 85% - 92% the total number of points obtained from final test
	5	Receiving from 93% - 100% the total number of points obtained from final test

5. BALANCE OF ECTS CREDITS – STUDENT’S WORK INPUT

Category	Student's workload
	Full-time studies
<i>NUMBER OF HOURS WITH THE DIRECT PARTICIPATION OF THE TEACHER /CONTACT HOURS/</i>	113
<i>Participation in lectures*</i>	35
<i>Participation in classes, seminars, laboratories*</i>	78
<i>Preparation in the exam/ final test*</i>	
<i>Others (please specify e.g. e-learning)*</i>	
<i>INDEPENDENT WORK OF THE STUDENT/NON-CONTACT HOURS/</i>	
<i>Preparation for the lecture*</i>	
<i>Preparation for the classes, seminars, laboratories*</i>	
<i>Preparation for the exam/test*</i>	
<i>Gathering materials for the project/Internet query*</i>	
<i>Preparation of multimedia presentation</i>	
<i>Others *</i>	
TOTAL NUMBER OF HOURS	113
ECTS credits for the course of study	9

**delete as appropriate*

Accepted for execution (date and legible signatures of the teachers running the course in the given academic year)

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