

	0912.7.LEK.D.HIET	
Name of the course in	Polish	<i>Zaburzenia homeostazy komórek nabłonkowych</i>
	English	<i>Homeostatic imbalance of epithelial tissue</i>

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 studies
1.4. Profile of study*	General academic
1.5. Person 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 (L): 15h (including 10h e-learning)	
3.2. Place of classes		
3.3. Form of assessment	Credit with grade Credit	
3.4. Teaching methods	Lecture (including e-learning):	
3.5. Bibliography	Required reading	Widmaier, E.P., Raff, H., & Strang, K.T. (2022). Vander's Human Physiology: The Mechanisms of Body Function (16th ed.). McGraw Hill.
	Further reading	

4. OBJECTIVES, SYLLABUS CONTENT AND INTENDED LEARNING OUTCOMES

4.1. Course objectives

Lectures

C1 Introducing students to the basic concepts at the intersection of histology and physiology in order to understand the fundamental mechanisms of disease development in the human body.

Preparing students to apply the theoretical knowledge acquired during histology classes in medical practice.

(including e-learning): ***Providing knowledge on the mechanisms of cancer development and the importance of preventive examinations in detecting precancerous changes in humans.***

4.2. Detailed syllabus

Lectures

- 1. Homeostasis – definition and history***
- 2. Cellular adaptive mechanisms***
- 3. Metaplasia and dysplasia – definitions and differences***
- 4. Apoptosis and necrosis – definitions and differences***
- 5. Precancerous changes***
- 6. Benign and malignant tumors – definitions and differences***

(including e-learning):

- 1. Knowledge of adaptation into understanding pathophysiology and recovery processes.***
- 2. Current research and experimental data on human adaptability under various physiological challenges.***

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	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	give opinions concerning various aspects of professional activity;	K.S10.
K04	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*		
	Form of classes			Form of classes			Form of classes			Form of classes			Form of classes			Form of classes			Form of classes		
	L	C	...	L	C	...	L	C	...	L	C	...	L	C	...	L	C	...	L	C	...
W01																					
W02																					
W03																					
U01																					
U02																					
K01-04																					

*delete as appropriate

4.5. Criteria of assessment of the intended learning outcomes

Form of classes	Grade	Criterion of assessment
lecture (L) (including e-learning)	3	60%
	3,5	
	4	70%
	4,5	
	5	90%

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

Category	Student's workload
	Full-time studies
NUMBER OF HOURS WITH THE DIRECT PARTICIPATION OF THE TEACHER /CONTACT HOURS/	15
Participation in lectures*	5
Participation in classes, seminars, laboratories*	
Preparation in the exam/ final test*	
Others* (including e-learning)	10
INDEPENDENT WORK OF THE STUDENT/NON-CONTACT HOURS/	10
Preparation for the lecture*	10
Preparation for the classes, seminars, laboratories*	
Preparation for the exam/test*	
Gathering materials for the project/Internet query*	
Preparation of multimedia presentation	
Others*	
TOTAL NUMBER OF HOURS	25
ECTS credits for the course of study	1

**delete as appropriate*

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

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