

DESCRIPTION OF THE COURSE OF STUDY

Course code	0912-7LEK-B2.6-P	
Name of the course in	Polish	Patofizjologia
	English	Pathophysiology

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 hab n. med. Anna Polewczyk, prof. UJK
1.6. Contact	Wnoz_inm@ujk.edu.pl

2. GENERAL CHARACTERISTICS OF THE COURSE OF STUDY

2.1. Language of instruction	English
2.2. Prerequisites*	Anatomy, Histology, Physiology

3. DETAILED CHARACTERISTICS OF THE COURSE OF STUDY

3.1. Form of classes	LECTURE 45, CLASSES 60,	
3.2. Place of classes	Courses in the teaching rooms of UJK	
3.3. Form of assessment	LECTURE – E, CLASSES- Zo (credit with grade)	
3.4. Teaching methods	Practical classes, conversational lecture, discussion	
3.5. Bibliography	Required reading	McPhee S.J., Hammer G.D: "Pathophysiology of Disease. An Introduction to Clinical Medicine" Lange Medical Books/Mc-Graw-Hill, 6th edition, 2010
	Further reading	Copstead L-E., Banasik J.: Pathophysiology" Elsevier, 5th Edition, 2013 Kumar V., Abbas A.K., Fausto N., Aster J.C. – "Robbins and Cotran Pathologic Basis of Disease" 8th ed. Saunders Elsevier 2010 Carol Mattson Porth – "Pathophysiology Concepts of Altered Health States", 7th ed. Lippincott & Wilkins 2006

4. OBJECTIVES, SYLLABUS CONTENT AND INTENDED LEARNING OUTCOMES

<p>4.1. Course objectives <i>(including form of classes)</i></p> <p>The aim of teaching pathophysiology is to explain to medical students the functional changes of the system in disease, mechanisms of diseases development as well as systemic consequences resulted from the disease. The students should be familiarized and able to use the terminology used in pathophysiology, know the basis of ethiopathogenesis of individual systems diseases, knows patomechanism of the consequences of organs and systems dysfunction as well as using the acquired knowledge practically.</p> <p>Classes</p> <p>Practical assessment of pathophysiological phenomena occurring in individual organs and systems with the ability to link individual pathomechanisms associated with various diseases</p>
<p>4.2. Detailed syllabus <i>(including form of classes)</i></p> <p>Interactive lectures, presentation of the cases</p> <p style="text-align: center;">Semester I 20 hours Lectures 1-6</p> <p>1. Diseases of the heart and blood vessels: atherosclerosis, ischaemic heart disease, acute coronary syndromes, arrhythmia</p> <p>2. Diseases of the heart and blood vessels: heart defects, hypertension, pulmonary hypertension.</p> <p>3. Diseases of the heart and blood vessels: Cardiomyopathies, heart failure, oedema pulmonum, cardiogenic shock</p>

4. Pathophysiology of inflammatory heart diseases
5. Pathophysiology of diseases of respiratory system
6. Eating disorders. Disorders of thermoregulation.

7. Pathophysiology of metabolism of carbohydrates, protein and lipids

8.
 - Semester II 25 hours Lectures 8-13**
 9. Pathophysiology of renal diseases
 10. Hormonal disorders – disorders of basal function of excretory system and hormonal disorders of hypothalamic – pituitary- adrenal axis and thyroid abnormalities
 11. Reproductive pathophysiology - disorders of gender differentiation and genital development, sexual maturation disorders, psychosexual disorders in women and men, pathogenesis of impotence and sex cooling
 12. Pathophysiology of selected central and peripheral nervous system diseases
 13. Pathophysiology of hematopoietic system and immunopathology
 14. Pathogenesis of the neoplastic diseases.

Classes

Semester I 30 hours Classes 1-5

- 1 Pathophysiology of circulatory system: ischaemic heart disease, acute coronary syndromes, arrhythmia. Pathogenesis of hypertension
2. Pathophysiology of circulatory system: defects of the heart, heart failure, acute cardiac conditions
3. The pathophysiology of respiratory diseases
4. The pathophysiology of the digestive system: gastroesophageal reflux disease, stomach and duodenal disease, intestinal diseases, malabsorption.
5. Disorders of carbohydrate, protein and lipid metabolism

Semester II 30 hours Classes 6-11

6. The pathogenesis of excretory system diseases
7. Water-electrolyte imbalance and the disorders of Acid-Base Balance
8. Disturbances in the functioning of the endocrine system
9. The pathophysiology of nervous system diseases
10. The pathophysiology of the hematopoietic system with particular emphasis on hemostasis disorders.
11. Immunopathology

4.3 Intended learning outcomes

Code	A student, who passed the course	Relation to learning outcomes
within the scope of KNOWLEDGE the graduate knows and understands :		
W4.	the mechanisms of aging;	B.W23.
W5.	the relationship between the factors that disrupt the equilibrium of biological processes and physiological and pathophysiological changes;	B.W25.
within the scope of ABILITIES the graduate knows how to:		
U1.	make connection between images of tissue and organ damage and clinical symptoms of the disease, medical history and the results of laboratory determinations;	C.U11.

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	+				+							+		+							
W04	+				+							+		+							
W05	+				+							+		+							
W06	+				+							+		+							
W07	+				+							+		+							
W08	+				+							+		+							
W09	+				+							+		+							
W10	+				+							+		+							
U01					+							+			+				+		

*delete as appropriate

4.5. Criteria of assessment of the intended learning outcomes

Form of classes	Grade	Criterion of assessment
lecture (L)	3	61%-68% Learning programme content on the basic level, replies chaotic, leading questions necessary.
	3,5	69%-76% Learning programme content on the basic level, answers systematized, requires assistance from the teacher.
	4	77%-84% Learning programme content on the basic level, answers systematized, independent. Solving of problems in typical situations.
	4,5	85%-92% The scope of presented knowledge exceeds the basic level based on the supplementary literature provided. Solving of problems in new complex situations
	5	93%-100% The scope of presented knowledge exceeds the basic level based on independently acquired scientific sources of information.
classes (C)*	3	61%-68% Learning programme content on the basic level, replies chaotic, leading questions necessary
	3,5	69%-76% Learning programme content on the basic level, answers systematized, requires assistance from the teacher.
	4	77%-84% Learning programme content on the basic level, answers systematized, independent. Solving of problems in typical situations.
	4,5	85%-92% The scope of presented knowledge exceeds the basic level based on the supplementary literature provided. Solving of problems in new complex situations
	5	93%-100% The scope of presented knowledge exceeds the basic level based on independently acquired scientific sources of information.

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>	90
<i>Participation in lectures*</i>	40
<i>Participation in classes, seminars, laboratories*</i>	50
<i>Preparation in the exam/ final test*</i>	
<i>Others*</i>	
<i>INDEPENDENT WORK OF THE STUDENT/NON-CONTACT HOURS/</i>	
<i>Preparation for the lecture*</i>	85
<i>Preparation for the classes, seminars, laboratories*</i>	20
<i>Preparation for the exam/test*</i>	50
<i>Gathering materials for the project/Internet query*</i>	15
<i>Preparation of multimedia presentation</i>	
<i>Others (please specify e.g. e-learning)*</i>	
TOTAL NUMBER OF HOURS	175
ECTS credits for the course of study	7

**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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