



# Pomeranian Medical University in Szczecin

## SYLLABUS of the MODULE (SUBJECT)

valid from the academic year 2018/2019

### General Information

Module title	Pathophysiology
Module type	Obligatory
Faculty	Faculty of Medicine and Dentistry
Field of study	Medicine and Dentistry
Major	Not applicable
Level of study	level II, long-cycle (S2J)
Mode of study	intramural
Year of studies, semester	Year 2, semester IV
ECTS credits (incl. semester breakdown)	4
Type/s of training	Lectures (10h) / practical (45h)
Form of assessment	final examination: test
Head of the Department/ Clinic, Unit	Prof. dr hab. n. med. Bogusław Machaliński
Tutor responsible for the module	Dr n. med. Elżbieta Dąbkowska - adiunkt dydaktyczny
Department's/ Clinic's/ Unit's website	<a href="http://www.pum.edu.pl">www.pum.edu.pl</a> – Wydział Lekarski z Oddziałem Nauczania w Języku Angielskim / Katedra Fizjopatologii / Zakład Patologii Ogólnej
Language	English

### Detailed information

Module objectives		Knowing and understanding the basic mechanisms leading to the formation of the most common diseases.
Prerequisite /essential requirements	Knowledge	Human Physiology and Biochemistry
	Skills	Analytical thinking
	Competences	Regularity, the habit of self-study, group working

<b>Description of the learning outcomes for the subject /module</b>			
<b>No. of learning outcome</b>	<b>Student, who has passed the (subject) knows /is able to /can:</b>	<b>SYMBOL (referring the standards) ZEK</b>	<b>Method of verification of learning outcomes</b>
W01	Knows and understands concepts of health and disease, mechanisms of developing disease on molecular, cellular, tissular and systemic level, clinical symptoms of disease, prognosis and its complications	K_C.W13	K/ET
W02	Knows basic disturbances of: regulation of hormonal secretion, water and electrolyte balance, acid-base equilibrium, kidneys and lungs function, mechanism of developing and consequences of disturbances in cardiovascular system, including shock	K_C.W15	K/ET
U01	Predicts and explains complex pathomechanisms of disturbances leading to development of diseases	K_C.U04	W/K/ET
U02	Explains clinical course of diseases in pathological processes	K_C.U05	W/K/ET
K01	Shows habit of self-education and lifelong education	K_K01	O
K02	Accepts need of standards of conduct and legislation regarding medical practice	K_K02	O
K03	Can co-operate with team members and care about occupational safety	K_K03	O

<b>Table presenting learning outcomes of the subject/module in relation to the form of classes</b>									
<b>No.</b>	<b>SYMBOL (referring the standards) ZEK</b>	<b>Type/s of training</b>							
		<b>Lecture</b>	<b>Seminar</b>	<b>Practical classes</b>	<b>Clinical classes</b>	<b>...</b>	<b>...</b>	<b>...</b>	<b>Other...</b>
1.	K_C.W13	X		X					
2.	K_C.W15	X		X					
3.	K_C.U04			X					
4.	K_C.U05			X					
5.	K_K01			X					
6.	K_K02			X					
7.	K_K03			X					

Module (subject) contents no.	Description of teaching programme	No. of hours	References to learning outcomes
<b>Lectures:</b>			
TK01	Inflammation. Fundamentals of immunopathology. Neoplasia.	5	W01, W02, U01, U02, K01, K02, K03
TK02	Pathophysiology of the respiratory system.	5	W01, W02, U01, U02, K01, K02, K03
<b>Practical classes:</b>			
TK01	Pathophysiology of the disorders of the protein, carbohydrate and lipid metabolism.	10	W01, W02, U01, U02, K01, K02, K03
TK02	Pathophysiology of the digestive system.	5	W01, W02, U01, U02, K01, K02, K03
TK03	Pathophysiology of the circulatory system.	5	W01, W02, U01, U02, K01, K02, K03
TK04	Pathophysiology of the urinary system. Pathophysiology of the disorders of water-electrolyte and acid-base balance.	5	W01, W02, U01, U02, K01, K02, K03
TK05	Pathophysiology of the endocrine system	5	W01, W02, U01, U02, K01, K02, K03
TK06	Avitaminosis. Thermoregulation. Pathophysiology of pain.	5	W01, W02, U01, U02, K01, K02, K03
TK07	Pathophysiology of the hematopoietic system.	5	W01, W02, U01, U02, K01, K02, K03
TK08	Pathophysiology of the nervous system.	5	W01, W02, U01, U02, K01, K02, K03

<b>Booklist</b>
Obligatory literature:
1. Robbins Basic Pathology, 9th ed., red. Vinay Kumar, Abul Abbas, Jon Aster, Saunders, 2012
2. Robbins & Cotran Pathologic Basis of Disease - 9th Edition; red. Vinay Kumar, Abul Abbas, Jon Aster, Elsevier, 2014
Supplementary literature:
1. Harrison's Principles of Internal Medicine 18th edition (2013)
2. Recent scientific articles related to Human Pathophysiology

Student's workload (balance sheet of ECTS credits)			
Form of student's activity (in-class participation; activeness, produce a report, etc.)	Student's workload [h]		
	Tutor	Student	Average
Contact hours with the tutor	55		
Time spent on preparation to seminars/ practical classes	40		
Time spent on reading recommended literature	15		
Time spent on writing report/making project	-		
Time spent on preparing to colloquium/ entry test	15		
Time spent on preparing to exam	20		
Other .....	-		
Student's workload in total	145		
ECTS credits for the subject (in total)	5		
Remarks			

\* Selected examples of methods of assessment:

EP – written examination

EU – oral examination

ET – test examination

EPR – practical examination

K – colloquium

R – report

S – practical skills assessment

RZC – practical classes report, incl. discussion on results

O – student's active participation and attitude assessment

SL – lab report

SP – case study

PS - assessment of student's ability to work independently

W – entry test

PM – multimedia presentation

other...