



# Pomeranian Medical University in Szczecin

## SYLLABUS of the MODULE (SUBJECT)

### General Information

Module title: Laboratory diagnostics	
Module type	Obligatory
Faculty PMU	Faculty of Medicine and Dentistry
Major	Medicine
Level of study	long-cycle (S2J)
Mode of study	full-time studies
Year of studies, semester	Year IV (semester: VII and VIII)
ECTS credits (incl. semester breakdown)	1
Type/s of training	Seminars: 12h
Form of assessment	<input checked="" type="checkbox"/> final examination <input type="checkbox"/> descriptive <input checked="" type="checkbox"/> test <input type="checkbox"/> practical <input checked="" type="checkbox"/> oral
Head of the Department/ Clinic, Unit	prof. dr hab. n. med. Andrzej Ciechanowicz
Tutor responsible for the module	dr hab. n. med. Jeremy Clark (jeremy.clark@pum.edu.pl)
Department's/ Clinic's/ Unit's website	Department of Clinical&Molecular Biochemistry ( <a href="https://www.pum.edu.pl/wydzialy/wydzial-lekarski/katedra-diagnostyki-laboratoryjnej/zaklad-biochemii-klinicznej-i-molekularnej">https://www.pum.edu.pl/wydzialy/wydzial-lekarski/katedra-diagnostyki-laboratoryjnej/zaklad-biochemii-klinicznej-i-molekularnej</a> )
Language	English

## Detailed information

Module objectives		To develop the skills of the correct selection of laboratory tests and their proper use (interpretation) for further diagnostic and therapeutic procedures.
Prerequisite /essential requirements	Knowledge	Basic knowledge in biochemistry and hematology.
	Skills	Ability to use correct biochemical naming and the ability to interpret basic biochemical changes in the case of disturbed homeostasis.
	Competences	The habit of self-education and the ability to work in a team.

Description of the learning outcomes for the subject /module			
No. of learning outcome	Student, who has passed the (subject) knows /is able to /can:	SYMBOL (referring the standards)	Method of verification of learning outcomes*
W01	knows environmental and epidemiological conditions of most frequent diseases	E.W01	ET/EU
W02	knows types of biological materials used in laboratory diagnostics and principles of collecting material for tests	E.W39	ET/EU
W03	knows theoretical and practical foundations of laboratory diagnostics	E.W40	ET/EU
W04	knows possibilities and limitations of laboratory tests during emergencies	E.W41	ET/EU

Table presenting LEARNING OUTCOMES in relation to the form of classes							
No. of learning outcome	Learning outcomes	Type of training					
		Lecture	Seminar	Practical	Clinical classes	Simulations	E-learning
W01	E.W01		x				
W02	E.W39		x				
W03	E.W40		x				
W04	E.W41		x				

Table presenting TEACHING PROGRAMME			
No. of a teaching programme	Teaching programme	No. of hours	References to learning outcomes
Seminars ( $\Sigma 12$ )			
TK01	Differences in laboratory diagnostics in the childhood, in the elderly and in the pregnancy.	2	E.W01, E.W39-E.W41
TK02	Rare diseases.	2	E.W01, E.W39-E.W41
TK03	Salt, genes, kidneys and arterial hypertension.	2	E.W01, E.W39-E.W41
TK04	Primary arterial hypertension: algorithms for laboratory diagnostics and analysis of clinical cases.	2	E.W01, E.W39-E.W41
TK05	Secondary arterial hypertension: algorithms for laboratory diagnostics and analysis of clinical cases.	2	E.W01, E.W39-E.W41
TK06	Anemia: algorithms for laboratory diagnostics and analysis of clinical cases.	2	E.W01, E.W39-E.W41
TK07	Glomerulonephritis and nephrotic syndrome - algorithms for laboratory diagnostics and analysis of clinical cases.	2	E.W01, E.W39-E.W41

Booklist
Obligatory literature:
Allan Gaw, Michael J Murphy, Rajeev Srivastava, Robert A Cowan, Denis St J O'Reilly. Clinical Biochemistry

Student's workload	
Form of student's activity (in-class participation; activeness, produce a report, etc.)	Student's workload [h]
	Tutor
Contact hours with the tutor	12
Time spent on preparation to seminars/ practical classess	12
Time spent on reading recommended literature	6
Time spent on writing report/making project	
Time spent on preparing to colloquium/ entry test	10
Time spent on preparing to exam	
Other .....	
Student's workload in total	40
ECTS credits for the subject (in total)	1
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

RZĆ – 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 – multimedial presentation  
 other...