Pomeranian Medical University in Szczecin

SYLLABUS of the MODULE (SUBJECT)
General Information

Module title: Laboratory Diagnostics	
Module type	Obligatory/~~Facultative (wybrać)~~
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*	☒graded assessment: ☐descriptive ☒test ☐practical ☒oral ☐non-graded assessment ☐final examination ☐descriptive ☐test ☐practical ☐oral
Head of the Department/ Clinic, Unit	prof. dr hab. n. med. Andrzej Ciechanowicz
Tutor responsible for the module	dr hab. n. med. Mariusz Kaczmarczyk (mariusz.kaczmarczyk@pum.edu.pl)
Department's/ Clinic's/ Unit's website	Department of Clinical&Molecular Biochemistry (https://www.pum.edu.pl/wydzialy/wydzial-lekarski/katedra-diagnostyki-laboratoryjnej/zaklad-biochemii-klinicznej-i-molekularnej)
Language	English

* replace ☐ into ☒ where applicable

Detailed information

Module objectives		To develope 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	K_E.W01	K, ET/EU
W02	knows types of biological materials used in laboratory diagnostics and rules governing sampling	K_E.W37	K, ET/EU
W03	knows theoretical and practical bases of laboratory diagnostics	K_E.W38	K, ET/EU
W04	knows and understands possibilities and limitations of laboratory examinations in emergency situations	K_E.W39	K, ET/EU
U01	interprets laboratory investigations and identifies reasons for deviations	K_E.U24	K, ET/EU
K01	demonstrates the awareness for self-education, understands the need for continuing professional education, can inspire and organize learning processes in others	K_K03	K, ET/EU
K02	can establish prioritize objectives	K_K16	K, 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 classes	Clinical classes	Simulations	E-learning	Other…
W01	K_E.W01		x					
W02	K_E.W37		x					
W03	K_E.W38		x					
W04	K_E.W39		x					
U01	K_E.U24		x					
K01	K_K03		x					
K02	K_K16		x					

Table presenting TEACHING PROGRAMME			
No. of a teaching programme	**Teaching programme**	**No. of hours**	**References to learning outcomes**
Seminars			
TK01	Differences in laboratory diagnostics in the childhood, in the elderly and in the pregnancy.	1	W01_W04, U01, K01, K02
TK02	Laboratory functional tests.	1	W01_W04, U01, K01, K02
TK03	Laboratory tests in the assessment of safety and efficacy of pharmacotherapy and in the assessment of the prognosis of diseases.	2	W01_W04, U01, K01, K02
TK04	Analysis of clinical cases - algorithms of laboratory diagnostics of haemostatic disorders.	2	W01_W04, U01, K01, K02
TK05	Analysis of clinical cases - algorithms for laboratory diagnostics of anemias.	2	W01_W04, U01, K01, K02
TK06	Analysis of clinical cases - algorithms of laboratory diagnostics of cardiovascular diseases.	2	W01_W04, U01, K01, K02
TK07	Analysis of clinical cases - algorithms for laboratory diagnostics of metabolic diseases.	2	W01_W04, U01, K01, K02

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 colloqium/ 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 – colloqium
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…