



Pomeranian Medical University in Szczecin

SYLLABUS of the MODULE (SUBJECT)

valid from the academic year 2017/2018

General Information

Module title	<i>Parasitology</i>
Module type	<i>Obligatory</i>
Faculty	<i>Faculty of Medicine</i>
Field of study	<i>Medicine</i>
Major	<i>Not applicable</i>
Level of study	long-cycle (S2J)
Mode of study	intramural
Year of studies, semester	<i>Year I, semester II</i>
ECTS credits (incl. semester breakdown)	1
Type/s of training	<i>Practical classes (10h)</i>
Form of assessment	<p>- <i>graded assessment</i>: *</p> <p><input type="checkbox"/> <i>descriptive</i></p> <p>X test</p> <p><input type="checkbox"/> <i>practical</i></p> <p><input type="checkbox"/> <i>oral</i></p> <p><input type="checkbox"/> <i>non-graded assessment</i> *</p> <p>- <i>final examination</i>: *</p> <p><input type="checkbox"/> <i>descriptive</i></p> <p><input type="checkbox"/> <i>test</i></p> <p><input type="checkbox"/> <i>practical</i></p> <p><input type="checkbox"/> <i>oral</i></p>
Head of the Department/ Clinic, Unit	Prof. Elzbieta Kalisinska, DSc, PhD
Tutor responsible for the module	Prof. Elzbieta Kalisinska, DSc, PhD e-mail: ekalist@pum.edu.pl Lidia Kołodziejczyk, PhD, Prof. e-mail: lkolo@pum.edu.pl Natalia Lanocha-Arendarczyk PhD, e-mail: nlanocha@pum.edu.pl
Department's/ Clinic's/ Unit's website	https://www.pum.edu.pl/wydzialy/wydzial-lekarsko-biotechnologiczny/katedra-i-zaklad-biologii-i-parazytologii-medycznej
Language	English

*replace ☐ with X where applicable

Detailed information

Module objectives		Increase of knowledge of: <ul style="list-style-type: none">biology and pathogenicity of human parasites including protozoans, helminthes and arthropods. Arthropods as biological vectors of viruses, bacteria and parasiteselements of epidemiology, diagnostic techniques and prophylaxis of parasitic diseases.	
Prerequisite /essential requirements	Knowledge	knowledge of biology, human anatomy and physiology	
	Skills	operates optic microscope and is able to take advantage of immersion.	
	Competences	self-education	
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) ZEK	Method of verification of learning outcomes *
W01	knows the epidemiology of transmission of diseases by viruses, bacteria, fungi and parasites and geographic areas of their occurrence	K_C.W13	MT
W02	knows invasive forms or phases of development of selected parasitic fungi, protozoans, helminthes and arthropods and geographic areas of their occurrence	K_C.W15	
W03	describes principles of parasite-host interactions and knows basic symptoms caused by parasites	K_C.W16	
W04	knows and understands principles of microbiological and parasitological diagnostics	K_C.W18	
U01	Identifies most frequent parasites in humans on the basis of their structure, life-cycles and disease symptoms	K_C.U7	MT, PT
K01	Demonstrates the awareness for self-education, understands the need for continuing professional education, can inspire and organize learning processes in others	K_K03	MT

Table presenting learning outcomes of the subject/module in relation to the form of classes									
No.	SYMBOL (referring the standards) ZEK	Type/s of training							
		Lecture	Seminar	Practical classes	Clinical classes	Other...
1.	K_C.W13			X					
2.	K_C.W15			X					
3.	K_C.W16			X					
4.	K_C.W18			X					
5.	K_C.U7			X					
6.	K_K03			X					
Module (subject) contents no.	Description of teaching programme	No. of hours		References to learning outcomes					
Practical classes									
TK01	Protista (part I): <i>Trichomonas vaginalis</i> , <i>Giardia lamblia</i> , <i>Trypanosoma gambiense</i> , <i>T. cruzi</i>	2		W01,W02,W03,W04, U01, K01					
TK02	Protista (part II): <i>Entamoeba histolytica</i> , <i>Plasmodium vivax</i> , <i>P. ovale</i> , <i>P. malariae</i> , <i>P. falciparum</i> , <i>P. knowlesi</i> , <i>Toxoplasma gonidii</i>	2		W01,W02,W03,W04, U01, K01					
TK03	Flatworms: <i>Clonorchis sinensis</i> , <i>Schistosoma haematobium</i> , <i>S. japonicum</i> , <i>S. mansoni</i> ; <i>Taenia saginata</i> , <i>T. solium</i> , <i>Echinococcus granulo sus</i> , <i>E. multilocularis</i>	2		W01,W02,W03,W04, U01, K01					
TK04	Roundworms=Nematodes: <i>Ascaris lumbricoides</i> , <i>Trichinella spiralis</i> , <i>Enterobius vermicularis</i> , <i>Toxocara canis</i> , <i>Trichuris trichiura</i>	2		W01,W02,W03,W04, U01, K01					
TK05	Arthropods Ticks and Mites: <i>Ixodes ricinus</i> , <i>Demodex folliculorum</i> , <i>Sarcoptes scabiei</i> Insects: <i>Pediculus humanus</i> , <i>Pthirus pubis</i> , <i>Cimex lectularius</i>	2		W01,W02,W03,W04, U01, K01					
Booklist									
Obligatory literature:									
1. Bogitsh B.J., Carter C.E., Oeltmann T.N. (2011) Human Parasitology. Forth edition. Academic Press									
Supplementary literature:									
1. Buczek A. (editor) (2007) “Parasitology for Medical Students” Koliber Publ., Lublin 330 pp. ISBN 83-60497-30-3									
2. www.cdc.gov									

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	10		
Time spent on preparation to seminars/ practical classess	10		
Time spent on reading recommended literature	5		
Time spent on writing report/making project			
Time spent on preparing to colloquium/ entry test			
Time spent on preparing to exam	5		
Other			
Student's workload in total	30		
ECTS credits for the subject (in total)	1		
Remarks			

* Selected examples of methods of assessment:

EP – written examination

EU – oral examination

ET – test examination

MT- multiple-choice final test

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

PT- practical slide identification of parasites

SL – lab report

SP – case study

PS - assessment of student's ability to work independently

W – entry test

PM – multimedial presentation

other...