Pomeranian Medical University in Szczecin

SYLLABUS of the MODULE (SUBJECT)
General Information

Module title: Parasitology	
Module type	Obligatory
Faculty PMU	Faculty of Medicine
Major	Medicine
Level of study	long-cycle (S2J)
Mode of study	full-time studies
Year of studies, semester	Year 2, semester II
ECTS credits (incl. semester breakdown)	1
Type/s of training	Practical classes (10 h)
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. Danuta Kosik-Bogacka, DSc, PhD
Tutor responsible for the module	Assoc. Prof. Natalia Łanocha-Arendarczyk, PhD e-mail: nłanocha@pum.edu.pl, phone no. +48 91 4661672
Department's/ Clinic's/ Unit's website	Department of Biology, Parasitology and Pharmaceutical Botany, tel: (091) 466 1672 https://www.pum.edu.pl/wydzialy/wydzial-lekarsko-biotechnologiczny/katedra-i-zaklad-biologii-i-parazytologii-medycznej
Language	English

* replace ☐ into ☒ where applicable

Detailed information

Module objectives		Increase of knowledge of: • biology and pathogenicity of human parasites including protozoans, helminthes and arthropods. Arthropods as biological vectors of viruses, bacteria and parasites • elements 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)	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	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	C.W16.	MT
W03	describes principles of parasite-host interactions and knows basic symptoms caused by parasites	C.W.17.	MT
W04	knows and understands principles of microbiological and parasitological diagnostics	C.W19.	MT
U01	identifies most frequent parasites in humans on the basis of their structure, life-cycles and disease symptoms	C.U7.	MT, S
K02	demonstrates the awareness for self- education, understands the need for continuing professional education, can inspire and organize learning processes in others	K5	MT

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	C.W13.			X				
W02	C.W16.			X				
W03	C.W17.			X				
W04	C.W19.			X				
U01	C.U7.			X				
K01	K5			X				

Table presenting TEACHING PROGRAMME			
No. of a teaching programme	**Teaching programme**	**No. of hours**	**References to learning outcomes**
Summer semester			
	Practical classes		
TK01	**Protista (part I)**: *Trichomonas vaginalis, Giardia lamblia, Trypanosoma gambiense, T. cruzi*	2	W01, W02, W03, W04, U01
TK02	**Protista (part II)**: *Entamoeba histolytica, Plasmodium vivax, P. ovale, P. malariae, P. falciparum, P. knowlesi, Toxoplasma gondii*	2	W01, W02, W03, W04, U01
TK03	**Flatworms:** *Clonorchis sinensis, Schistosoma haematobium, S. japonicum, S. mansoni; Taenia saginata, T. solium, Echinococcus granulosus, E. multilocularis*	2	W01, W02, W03, W04, U01
TK04	**Roundworms=Nematodes:** *Ascaris lumbricoides, Trichinella spiralis, Enterobius vermicularis, Toxocara canis, Trichuris trichiura*	2	W01, W02, W03, W04, U01
TK05	**Arthropods** **Ticks and Mites**: *Ixodes ricinus, Demodex folliculorum, Sarcoptes scabiei* **Insects**: *Pediculus humanus, Pthirus pubis, Cimex lectularius*	2	W01, W02, W03, W04, U01

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	
Form of student's activity (in-class participation; activeness, produce a report, etc.)	Student's workload [h]
	Tutor
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 colloqium/ entry test	2
Time spent on preparing to exam	
Other: Time spent on preparing to final test	5
Student's workload in total	32

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
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 – multimedial presentation
MT-multiple-choice test
other…