

Załącznik nr 1
do Zarządzenia Rektora nr 169/2020
z dnia 6 października 2020 r.
obejmujący
Załącznik nr 1
do Zarządzenia Rektora nr 101/2017
z dnia 25 września 2017 roku

SYLABUS

Nazwa przedmiotu/modułu (zgodna z zatwierdzonym programem studiów na kierunku) Clinical Parasitology			Liczba punktów ECTS 2	
Nazwa przedmiotu/modułu w j. angielskim Clinical Parasitology,				
Jednostka(i) realizująca(e) przedmiot/moduł (instytut/katedra) Katedra Nauk Przedklinicznych i Chorób Zakaźnych				
Kierownik przedmiotu/modułu dr Mirosław Różycki				
Kierunek studiów Weterynaria	Poziom Jednolite studia magisterskie	Profil Praktyczny	Semestr VII	
W zakresie	Specjalizacja magisterska			
RODZAJE ZAJĘĆ I ICH WYMIAR GODZINOWY (zajęcia zorganizowane i praca własna studenta)				
Forma studiów: stacjonarne		Forma studiów: niestacjonarne		
- wykłady	15	- wykłady	0	
- ćwiczenia	15	- ćwiczenia	0	
- Samodzielna praca studenta	0	- Samodzielna praca studenta	0	
- przygotowanie do ćwiczeń	0	-		
- przygotowanie do kolokwium (sprawdzianu pisemnego)	0	-		
Łączna liczba godzin:	30			
CEL PRZEDMIOTU/MODUŁU				
The main goal of „Clinical Parasitology” is to provide veterinary students with knowledge and skills necessary to diagnose, treat and prevent parasitic infections in animals. This includes the understanding of the biology, epidemiology, diagnosis, treatment, and control of parasites that affect various animal species. The aim is to ensure the health and welfare of animals, while also protecting public health and reducing the economic impact of parasitic infections on animal production.				
METODY DYDAKTYCZNE				
Lecture, Exercises and tasks (students work on tasks individually or in groups), Discussion, Projects, Problem-based learning, Case-based learning, Combined methods (teacher combines different teaching methods, such as lecture, exercises, discussion, and project, to achieve the best results).				
ZAKŁADANE EFEKTY UCZENIA SIĘ PRZEDMIOTU/MODUŁU			Odniesienie do kierunkowych efektów uczenia się	
Wiedza	E1 - The student describes and explains: Basic concepts and terminology in parasitology.			WA_B.W01
	E2 - The student describes and explains systemic parasitic infections in animals.			WA_B.W02
	E3 - The student describes and explains systemic parasitic infections in humans.			WA_B.W04
	E4 - The student describes the importance of food and water as vectors for parasitic zoonoses.			WA_B.W06
	E5 - The student describes the symptoms and diagnosis of enterobiasis, ascariasis, trichuriasis, and other diseases caused by parasitic zoonoses transmitted through food.			WA_B.W08
	E5 - The student describes and explains the risks associated with travel parasitology, including the occurrence, symptoms, and diagnosis of diseases caused by parasites in different regions of the world.			
	E6 - The student describes and explains the role and importance of organizations such as EFSA, ECDC, OIE, WHO in relation to emerging parasitic threats to humans and animals			WA_C.U03

Umiejętności	E7 - The student is able to define and correctly identify basic parasitic units. E8 - The student is able to perform basic parasitological diagnosis (macroscopic and microscopic methods, serological methods). E9 - The student is able to develop a treatment plan for systemic diseases caused by parasites. E10 - The student is able to develop a diagnostic, monitoring, and treatment plan for a herd. E11 - The student understands the need for lifelong learning in order to continuously develop their professional skills.	WA_B.U01 WA_B.U02 WA_B.U03 WA_B.U06 WA_B.U07 WA_B.U08 WA_B.U10 WA_B.U13
Kompetencje społeczne	E12 - Shows responsibility for the decisions made regarding humans and animals. E13 - Has awareness and acts in accordance with the principles of bioethics and professional ethics. E14 - Understands the importance and has a need for continuous education in the field of veterinary parasitology and neurology. E15 - Prioritizes food safety by following the principle of "per bono animali pro publico bono."	WA_D.K01 WA_D.K02 WA_D.K03 WA_D.K05 WA_D.K06 WA_D.K08 WA_D.K10
Metody weryfikacji efektów uczenia się Tests and exams - written to evaluate a student's knowledge and understanding of a subject. Homework - tasks given to complete outside of class that allow teacher to evaluate their understanding of the material. Projects and presentations - require students to apply what they have learned in a creative or practical way. Peer review - students evaluate each other's work and provide feedback, which can help reinforce their own understanding of the subject matter. Classroom observation - teachers observe students during class activities and interactions to assess their learning progress. Self-assessment - students evaluate their own learning progress and provide feedback on their strengths and weaknesses.		Symbole efektów przedmiotowych E1 – E8,

TRZĘCI KSZTAŁCENIA

Lectures:

Subject 1-5: Introduction to Clinical Parasitology. Definitions and classification of parasites. History of clinical parasitology. Basic concepts and terminology in parasitology. Subject 2: Selected systemic parasitic infections (Intestinal Parasites, Blood and Tissue Parasites, Respiratory System Parasites, Urogenital System Parasites). Introduction, occurrence, symptoms, and diagnosis. Treatment and prevention of diseases caused by parasites. Subject 6: Food and waterborne parasitoses. Introduction to food and waterborne parasitoses. Occurrence, symptoms, and diagnosis of the diseases caused by foodborne zoonotic parasites. General concept on treatment and prevention of diseases caused by foodborne parasites. Subject 7: Parasites in Travel. Introduction to parasitology in travel. Occurrence, symptoms, risk and diagnosis of diseases caused by parasites in different regions of the world. Diagnosis, treatment and prevention of diseases caused by parasites during travel with animals. Subject 8: Diagnostic Methods in Clinical Parasitology. Macro and microscopic examination, serological tests, molecular methods, imaging techniques, antigen detection tests. Subject 9: Emerging Parasitic Infections. Introduction to emerging parasitic infections. Occurrence, symptoms, and diagnosis of new and emerging diseases caused by parasites. General information on role WHO, ECDC, EFSA and RAS. Treatment and prevention of new and emerging diseases caused by zoonotic parasites. Subject 10: Immunology of Parasitic Infections. Introduction to immunology of parasitic infections. Immune response to parasitic infections. Immune evasion mechanisms of parasites. Implications for vaccine development and immunotherapy. Outcomes and shortcomings of immunotherapy of parasitic diseases. Subject 11: Epidemiology of Parasitic Infections. Introduction to epidemiology of parasitic infections. Risk factors for parasitic infections. Transmission modes of parasitic infections. Control measures and public health interventions for parasitic infections. Subject 12: One Health Approach to Parasitic Infections. Introduction to the One Health concept. Interactions between humans, animals, and the environment in the transmission of parasitic infections. Implications for surveillance, prevention, and control of parasitic infections. Subject 13: Case Studies in Clinical Parasitology. Case studies of patients with parasitic infections. Diagnosis, treatment, and management of parasitic infections in clinical settings. Ethical considerations and challenges in the diagnosis and management of parasitic infections. Subject 14: Parasitic Infections and Global Health. Introduction to the global burden of parasitic infections. Implications for global health and development. Strategies for addressing the challenges of parasitic infections in low-resource settings. Subject 15: Future Directions in Clinical Parasitology. Emerging trends and technologies in clinical parasitology. Innovations in diagnosis, treatment, and management of parasitic infections. Opportunities and challenges for research and training in clinical parasitology

Trainings:

Basic concepts and terminology in parasitology. Treatment and prevention of systemic diseases caused by parasites. Treatment and prevention (inactivation) of diseases caused by foodborne parasites. Prevention of diseases caused by parasites during travel. Control measures and public health interventions for parasitic infections – where are the data's? Surveillance and control of parasitic infections. Ethical considerations and challenges in the diagnosis and management of parasitic infections. Emerging trends and technologies in clinical parasitology

Formy i kryteria zaliczenia przedmiotu/modułu

1. Tests: recognition and identification of parasites, diagnostics, risk assessment projects and development of prevention, prophylaxis and control measures. Team projects (various techniques) - interpretation of results and decision-making: presentation in the form of reports.

Procentowy udział
w końcowej
ocenie
1) 100%

WYKAZ LITERATURY

Veterinary Parasitology: M.A. Taylor BVMS, PhD, MRCVS, DipEVP, Dip ECRSHM, CBiol, MRSB, R.L. Coop BSc, PhD, R.L. Wall BSc, MBA, PhD, FRES, First published: 20 November 2015 Print ISBN: 9780470671627 | Online ISBN: 9781119073680 | DOI: 10.1002/9781119073680

Diagnostic Parasitology for Veterinary Technicians 6th Edition - July 17, 2022 Charles Hendrix, Ed Robinson, Paperback ISBN: 9780323831031, eBook ISBN: 9780323831048

Literatura uzupełniająca:

Medycyna Weterynaryjna, Życie Weterynaryjne, Postępy Mikrobiologii.