Jordan University of Science and Technology

Faculty of Veterinary Medicine

Doctor Of Veterinary Medicine (Dvm) Department

VM234 Veterinary Parasitology - JNQF Level: 7
Second Semester 2023-2024

Course Catalog
2 Credit Hours. This course includes general aspects of parasitic infection in different animals in addition to classification, description of external features of parasites, internal parasites, molecular infection and epidemiology of parasitic infections.
Teaching Method: On Campus

Text Book	
Title	Georgis Parasitology for Veterinarians,
Author(s)	Dwight D. Bowman,
Edition	1st Edition
Short Name	1
Other Information	W.B Saunders Company, 1999. Seventh edition.

Instructor	
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Instructor	
Name	**Dr. Rami Mukbel**
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Office Hours	Sun : 10:00 - 11:00 Mon : 12:00 - 14:00 Tue : 11:00 - 13:00 Wed : 12:00 - 13:00

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Class Schedule & Room
Section 1: Lecture Time: Sun, Tue : 08:30 - 09:30 Room: M2008 Section 2: Lecture Time: Mon, Wed : 08:30 - 09:30 Room: NB53

Prerequisites		
Line Number	**Course Name**	**Prerequisite Type**
662331	VM233 Veterinary Entomology	Prerequisite / Study

Tentative List of Topics Covered		
Weeks	**Topic**	**References**
Week 1	-Introduction to Veterinary Parasitology - Parasitism, Parasite and Hosts - Effect of parasites on their hosts Classification	From **1**
Week 2	Class: Trematoda ? General Characteristics ? General Anatomy ? General Life History ? Classification ? Fasciola spp ? Dicrocoelium ? Heterophyes heterophyes ? Echinostoma revolutum ? Paramphistimum spp ? Schistosoma spp	From **1**
Week 3	Class: Cestoda ? General characteristics ? General Anatomy ? General life history ? Classification - Diphylobothrium latum - Taenia spp - Echinococcus spp	From **1**
Week 4	- Dipylidium caninum - Anoplocephala spp - Daviniedae - Hymenolepis spp - Moniezia spp - Avittillina spp - Stilezia spp - Miscellaneous non- taeniid tapeworms	From **1**
Week 5	- Acanthocephala spp - Leeches - Revision (end of first exam material) Class Nematoda ? General Characteristics ? General Anatomy ? General Life History Classification	
Week 6	- Strongyloides - Hookworms	From **1**
Week 7	- Lungworms - Trichostrongylus axei - Haemonchus contortus - Ostertagia spp - Marshalagia marshali - Cooperia spp	From **1**
Week 8	- Nematodirus spp - Strongyles - Oesophagostomum spp - Syngamus trachea - Mammomongamus spp - Ascarids	From **1**
Week 9	- Pinworms - Trichurids - Capillaria spp - Spirocerca lupi - Thelazia spp	From **1**
Week 10	- Gongylonema spp - Habronema spp - Filarial worms Revision (end of second exam material)	From **1**
Week 11	Phylum: Protozoa - Class: Sarcomastigophorids o Amoebae o Flagellates ? Trichomonas spp ? Histomonas spp ? Giardia spp ? Trypanosoma spp	From **1**

Week 12	? Leishmania spp	From **1**
Week 13	- Cilliated Protozoa ? Blantidium coli - Apicomplexa o Coccidian o Sarcoysts spp o Toxoplasma gondi o Cryptosporidium spp o Isospora spp &Neospora caninum	From **1**
Week 14	Haemosporidia o Babesia spp o Theileria spp o Anaplasma spp	From **1**
Week 15	o Leucocytozoon spp o Ehrlichia spp o Cowdria spp o Haemobartonella spp o Other protozoan	From **1**
Week 16	Human & avian malaria	From **1**

Mapping of Course Outcomes to Program Outcomes and NQF Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
State definitions and vocabulary used in parasitology. [1PLO1] [1L7K1]	10%	Mid exam, Final
List classification of parasitic helminthes of domesticated and game animals. [1PLO2] [1L7K1]	10%	Mid exam, Final
Identify the morphology of parasitic helminthes at different stages of life cycle and describe geographical distribution and life cycles of parasitic helminthes. [1PLO3] [1L7K1]	10%	Mid exam, Final
Define pathogenesis and signs of helminthes infections and describe the diagnosis and control of parasitic helminthes. [1PLO3] [1L7K1]	10%	Mid exam, Final
Develop the capability to think analytically and critically in preparing a control strategy to helminth infection. [1PLO4] [1L7S1]	15%	Mid exam, Final
Develop the skill of searching for updated subjects in helminthology and ability to use literary and academic English. [1PLO4] [1L7S3]	15%	Mid exam, Final
Prepare materials needed for collection and preservation of helminth parasites and apply diagnostic parasitological techniques. [1PLO10] [1L7C4]	15%	Mid exam, Final
Apply gained helminthology knowledge in prevention of helminth infection. [1PLO12] [1L7C4]	15%	Mid exam, Final

Relationship to Program Student Outcomes (Out of 100%)											
PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10	PLO11	PLO12
10	10	20	30						15		15

Relationship to NQF Outcomes (Out of 100%)			
L7K1	L7S1	L7S3	L7C4
40	15	15	30

Evaluation

Assessment Tool	Weight
Mid exam	50%
Final	50%

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