

**Jordan University of Science and Technology**  
**Faculty of Veterinary Medicine**  
**Department of Basic Veterinary Medical Sciences**  
**Dr. Rami Mukbel**

<b>Course Information</b>	
<b>Course Title</b>	Veterinary Parasitology
<b>Course Number</b>	V.M. 236
<b>Prerequisites</b>	
<b>Instructor</b>	Dr. Rami Mukbel
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<b>Teaching Assistant</b>	

<b>Text Book</b>	
<b>Title</b>	Veterinary Parasitology
<b>Author(s)</b>	Urquhart, G.M et al.
<b>Publisher</b>	Lnngman. London
<b>Year</b>	1999
<b>Edition</b>	ninth
<b>Text Book</b>	
<b>Title</b>	Georgis Parasitology for Veterinarians
<b>Author(s)</b>	Dwight D. Bowman
<b>Publisher</b>	W.B Saunders Company
<b>Year</b>	1999
<b>Edition</b>	Seventh
<b>Book Website</b>	
<b>References</b>	

<b>Assessment Policy</b>		
<b>Assessment Type</b>	<b>Expected Due Date</b>	<b>Weight</b>
<b>First Exam</b>		30%
<b>Second Exam</b>		30%
<b>Final Exam</b>		40%

<b>Course Objectives</b>	<b>Weights</b>
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**Learning Outcomes:** Upon successful completion of this course, students will be able to

By the end of this course the students will have a thorough understanding of the internal parasites of veterinary importance including identification, life cycle, pathogenesis, treatment and techniques for diagnosis.

<b>Useful Resources</b>
Web-Based lab instruction
Web-Based Animations

Course Content		
Week	Topics	Chapter in Text (handouts)
1	-Introduction to Veterinary Parasitology - Parasitism, Parasite and Hosts - Effect of parasites on their hosts - Classification	
2	<b>Class: Trematoda</b> ➤ General Characteristics ➤ General Anatomy ➤ General Life History ➤ Classification • <i>Fasciola spp</i> • <i>Dicrocoelium</i> • <i>Heterophyes heterophyes</i> • <i>Echinostoma revolutum</i> • <i>Paramphistimum spp</i> • <i>Schistosoma spp</i>	
3	<b>Class: Cestoda</b> ➤ General characteristics ➤ General Anatomy ➤ General life history ➤ Classification - <i>Diphylobothrium latum</i> - <i>Taenia spp</i> - <i>Echinococcus spp</i>	
4	- <i>Dipylidium caninum</i> - <i>Anoplocephala spp</i> - <i>Daviniedae</i> - <i>Hymenolepis spp</i> - <i>Moniezia spp</i> - <i>Avitillina spp</i> - <i>Stilezia spp</i> - Miscellaneous non- taeniid tapeworms	
5	- <i>Acanthocephala spp</i> - Leeches - Revision (end of first exam material) <b>Class Nematoda</b> ➤ General Characteristics ➤ General Anatomy ➤ General Life History ➤ Classification	
6	- Strongyloides - Hookworms - <b>FIRST HOUR EXAMINATION</b>	
7	- Lungworms - <i>Trichostrongylus axei</i> - <i>Haemonchus contortus</i> - <i>Ostertagia spp</i> - <i>Marshallagia marshali</i> - <i>Cooperia spp</i>	
8	- <i>Nematodirus spp</i> - Strongyles - <i>Oesophagostomum spp</i> - <i>Syngamus trachea</i> - <i>Mammomongamus spp</i> - Ascarids	
8	- Pinworms - Trichurids - <i>Capillaria spp</i> - <i>Spirocerca lupi</i> - <i>Thelazia spp</i>	
10	- <i>Gongylonema spp</i>	

	<ul style="list-style-type: none"> <li>- Habronema spp</li> <li>- Filarial worms</li> <li>- Revision ( end of second exam material)</li> </ul>	
11	<p style="text-align: center;"><b>Phylum: Protozoa</b></p> <ul style="list-style-type: none"> <li>- Class: Sarcomastigophorids <ul style="list-style-type: none"> <li>o Amoebae</li> <li>o Flagellates <ul style="list-style-type: none"> <li>▪ Trichomonas spp</li> <li>▪ Histomonas spp</li> <li>▪ Giardia spp</li> <li>▪ Trypanosoma spp</li> <li>▪</li> </ul> </li> </ul> </li> </ul>	
12	<ul style="list-style-type: none"> <li>▪ Leishmania spp</li> <li>▪</li> <li>▪ <b>SECOND HOUR EXAMINATION</b></li> </ul>	
13	<ul style="list-style-type: none"> <li>- - Ciliated Protozoa <ul style="list-style-type: none"> <li>▪ Blantidium coli</li> </ul> </li> <li>- Apicomplexa <ul style="list-style-type: none"> <li>▪ Coccidian</li> <li>▪ Sarcocysts spp</li> <li>▪ Toxoplasma gondi</li> <li>▪ Cryptosporidium spp</li> </ul> </li> <li>Isospora spp &amp; Neospora caninum <ul style="list-style-type: none"> <li>▪</li> </ul> </li> </ul>	
14	<p>Haemosporidia</p> <ul style="list-style-type: none"> <li>▪ Babesia spp</li> <li>▪ Theileria spp</li> <li>▪ Anaplasma spp</li> <li>▪ Human &amp; avian malaria</li> </ul>	
15	<ul style="list-style-type: none"> <li>▪ Leucocytozoon spp</li> <li>▪ Ehrlichia spp</li> <li>▪ Cowdria spp</li> <li>▪ Haemobartonella spp</li> <li>▪ Other protozoan</li> <li>▪</li> </ul>	