



# *The Hebrew University of Jerusalem*

## *Syllabus*

### **INTRODUCTION TO PARASITOLOGY - 71824**

*Last update 19-09-2022*

*HU Credits:* 3

*Degree/Cycle:* 1st degree (Bachelor)

*Responsible Department:* Animal Sciences

*Academic year:* 0

*Semester:* 2nd Semester

*Teaching Languages:* Hebrew

*Campus:* Rehovot

*Course/Module Coordinator:* Prof Gad Baneth

*Coordinator Email:* [Gad.Baneth@mail.huji.ac.il](mailto:Gad.Baneth@mail.huji.ac.il)

*Coordinator Office Hours:* by appointment

*Teaching Staff:*

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Prof Gad Baneth

Course/Module description:

*The course describes basic principles in parasitology*

*The lectures will be recorded. The recordings would be available to students after the end of the semester*

Course/Module aims:

*To provide the student with a basic understanding of parasitology*

Learning outcomes - On successful completion of this module, students should be able to:

*To understand basic terms and principles in parasitology including life cycles, groups of parasites and means of preventing parasitic diseases*

Attendance requirements(%):

100

*Teaching arrangement and method of instruction: Frontal lectures with reference to the scientific literature for further enrichment*

Course/Module Content:

1. Preface to parasitology
2. Basic terms in parasitology A  
*Medical and veterinary Importance of parasites, commensalism, mutualism, parasitism, ectoparasites and endoparasites, types of hosts and vectors, monoxenous and heteroxenous life cycles.*
3. Basic terms in parasitology B  
*Introduction to protozoa, specific organelles, motility.*
4. Protozoa  
*Reproduction mechanisms of protozoa, cysts and cyst formation.*
5. Apicomplexa  
*Apicomplexan organelles, the basic apicomplexan life cycle, coccidia and coccidiosis.*
6. Apicomplexa: Sarcocystidae  
*Toxoplasma gondii, Neospora caninum*
7. Apicomplexa: Cryptosporidium
8. Apicomplexa: Babesia and babesiosis  
*An introduction to ticks and transmission of tick-borne pathogens, babesiosis of*

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domestic animals  
9. Apicomplexa: theileriosis  
10. Apicomplexa: hepatozoonosis  
*Hepatozoon canis*, *Hepatozoon americanum*  
11. Malaria  
12. Kinetoplasta : trypanosomiasis  
13. Kinetoplasta: leishmaniasis  
14. Flagellates  
*Giardia*, *Trichomonas*, *Amoeba*  
15. Introduction to helminthology and trematodes  
16. Nematodes 1  
*Ascarids*, *Anisakis*, *Ancylostoma*, *Spirocerca lupi*  
17. Nematodes 2  
*Trichuris*, *Trichinella*, *Filaria*  
18. Cestodes 1  
*Dipylidium*, *Taenia*  
19. Cestodes 2  
*Echinococcus granulosus* and *E. multilocularis*  
20. Course summary

Required Reading:

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Additional Reading Material:

Georgi's Parasitology for Veterinarians. 11th edition 2020. Author: Bowman. Elsevier.

Course/Module evaluation:

End of year written/oral examination 100 %  
Presentation 0 %  
Participation in Tutorials 0 %  
Project work 0 %  
Assignments 0 %  
Reports 0 %  
Research project 0 %  
Quizzes 0 %  
Other 0 %

Additional information:

Teaching and the final examinations may change subject to the university's regulations and availability of frontal teaching and examinations on campus