



Course specification

1-Basic information

Course Code:	S3-PARA
Course title :	Parasitology
Academic year:	3 rd Year, 2017/2018
Program title:	B. Sc. Veterinary Medical Sciences
Contact hours/ week	6 hours/week, (3 Lectures/week, 3 Practical/week)
Approval Date	

2-Professional information

Overall aims of course:

This course aims to:

- 1-Identify helminths, arthropods, protozoa infecting mammals and birds.
- 2- Describe helminths, arthropods, protozoa of veterinary medical importance.
- 3- Explain life cycle of helminths, arthropods, protozoa of veterinary medical importance
- 4- Compare between the different parasitic affection.
- 5- Apply the different control measures.

3- Intended learning outcomes of course (ILOs)

A-Knowledge and understanding:

By the end of this course the student should be able to:

- a1-Recognize different helminths including trematodes, cestodes and nematodes; as well as insects, arachnids and protozoa including sarcomastigophores, apicomplexans, ciliates and sporozoa and their life cycle.
- a2-Describe different trematodes, cestodes and nematodes; as well as insects, arachnids and protozoa including sarcomastigophores, apicomplexans, ciliates and sporozoa of veterinary importance.

b-Intellectual skills

By the end of this course the student should be able to:

- b1-Compare between different species of helminths including trematodes, cestodes and nematodes; as well as insects, arachnids and protozoa including sarcomastigophores, apicomplexans, ciliates and sporozoa of veterinary importance and their control.
- b2-Deal with various helminths including trematodes, cestodes and nematodes; as well as insects, arachnids and protozoa including sarcomastigophores, apicomplexans, ciliates and sporozoa of veterinary importance and their pathogenesis.

Professional and practical skills

By the end of this course the student should be able to:

- c1-Write a report about different helminths including trematodes, cestodes and nematodes; as well as insects, arachnids and protozoa including sarcomastigophores, apicomplexans,



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ciliates and sporozoa of veterinary importance
 c2- Manage the infection and diagnostic stages of helminths including trematodes, cestodes and nematodes; as well as insects, arachnids and protozoa including sarcomastigophores, apicomplexans, ciliates and sporozoa of veterinary importance.

d-General and transferable skills

By the end of studying the course, the student should be able to:

d1- Work in a group and manage time.

d2- Exhibits the sense of beauty and neatness.

4-Topics and contents

Course	Topic	No. of hours	Lectures	Practical
1 st semester				
Title general parasitology (Lec. 3 h./week, Pract. 3 h./week) h./week, Pract. 3 h./week	Introduction to Helminthology	6	3	3
	Class: Trematoda (morphology, life cycle and control)	24	12	12
	Class: Cestoda (morphology, life cycle and control)	24	12	12
	Class: Nematoda (morphology, life cycle and control)	24	12	12
2 nd semester				
Title special parasitology (Lec. 3 h./week, Pract. 3 h./week)	Introduction to Veterinary Entomology	6	3	3
	Class: Insecta (morphology, life cycle and control)	18	9	9
	Class : Arachnida (morphology, life cycle and control)	6	3	3
	Introduction to Veterinary Protozoology	6	3	3
	Phylum: Sarcomastigophora (morphology, life cycle and control)	12	6	6



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Phylum: Apicomplexa (morphology, life cycle and control)	12	6	6
Phylum: Ciliophora (morphology, life cycle and control)	6	3	3
Phylum: Sporozoa (morphology, life cycle and control)	12	6	6

5-Teaching and learning methods

- 5.1- Lectures (brain storm, discussion) using board, data shows
- 5.2- Self learning by preparing essays and presentations (computer researches and faculty library)
- 5.3- Practical (gross examination, microscopic examination).
- 5.4- Video movies for students of special needs.

6-Teaching and learning methods for the students with disabilities

Office hours and special meeting.

7-Student assessment

7.1. Assessments methods:

Method	Matrix alignment of the measured ILOs/ Assessments methods			
	K&U	LS	P&P.S	G.S
Written Exam	a1, a2	b1,b2	c1	-
Practical Exam	a2	b2	c1, c2	d 1, d2
Oral Exam	a1, a2	b1,b2	c1, c2	d 1, d2

7.2. Assessment schedules/semester:

Method	Week(s)
Practical exams	14 th Week
Written exams	16 th ,17 th , 18th Week
Oral Exam	Managed by the department

7.3. Weight of assessments/semester:

Assessment	Weight of assessment
Practical exams	30%
Writtenexams	50%
Oral Exam	20%
	100%



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8- List of references

8.1. Notes and books

Departmental notes on:

- Veterinary Parasitology volume I Helminthology, Prof.Dr. Mahmoud Amin El-Askalany. 2008/16252- I.S.B.N: 977-17-6030-0
- Veterinary Parasitology volume II Arthropods and Protozoa, Prof.Dr. Mahmoud Amin El-Askalany. 2008/16253- I.S.B.N: 977-17-6031-9

8.2. Essential books:

- Helminths& Arthropods and Protozoa of domesticated animals, 3rd Edition (Soulsbay 1986)
- Foundation of Parasitology, Gerald D. Schmidt, Larry S. Roberts,3rd Edition.

8.3. Recommended texts

- Georgis Parasitology for veterinarians , 9th edition, D Wight, D. Bowman 2009
- Medical and veterinary entomology, 2ndedition , Kettle, D.S. 1995
- Veterinary ectoparasites, biology, pathology, control , 2nd edition Richard Wall and David Shearer 1997

8.4. Journals, Websitesetc

Journals:

- Parasitology Research.
- Egyptian Veterinary Medical Society of Parasitology Journal.

Websites:

- <http://www.journals.elsevier.com/veterinary-parasitology/>

Course Coordinators

Head of Department

Dr.Lilian Nagy MahrousProf.Khaled Mohamed El Dakhly



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Topic	Week	Intended learning outcomes of course (ILOs)			
		K&U(a)	I.S(b)	P.P.S (c)	G.T.S (d)
1st semester					
Introduction to Helminthology	1	a1	-	-	-
Class: Trematoda(morphology, life cycle and control)	2,3,4,5	a1, a2	b1, b2	c1, c2	d1, d2
Class: Cestoda(morphology, life cycle and control)	6,7,8,9	a1, a2	b1, b2	c1, c2	d1, d2
Class: Nematoda(morphology, life cycle and control)	10,11,12,13	a1, a2	b1, b2	c1, c2	d1, d2
2nd semester					
Introduction to Veterinary Entomology	1	a1	-	-	-
Class: Insecta(morphology, life cycle and control)	2,3,4	a1, a2	b1, b2	c1, c2	d1, d2
Class : Arachnida(morphology, life cycle and control)	5	a1, a2	b1, b2	c1, c2	d1, d2
Introduction to Veterinary Protozoology(morphology, life cycle and control)	6	a1	-	-	-
Phylum: Sarcomastigophora(morphology, life cycle and control)	7,8	a1, a2	b1, b2	c1, c2	d1, d2
Phylum: Apicomplexa(morphology, life cycle and control)	9,10	a1, a2	b1, b2	c1, c2	d1, d2
Phylum: Ciliophora(morphology, life cycle and control)	11	a1, a2	b1, b2	c1, c2	d1, d2
Phylum: Sporozoa(morphology, life cycle and control)	12,13	a1, a2	b1, b2	c1, c2	d1, d2

