University of Sadat City
Faculty of Veterinary Medicine
Dept. of Parasitology
(2014-2015)

Parasitology
Basic course

MASTER COURSE SPECIFICATION

1- Basic information

University	**University of Sadat City**
Faculty	**Veterinary Medicine**
Course Code:	**---**
Course title:	**Parasitology (Basic course)**
Department offering the Course:	**Parasitology**
Program title:	**Master in Veterinary Medical Sciences (parasitology)**
Contact hours/week:	**Lecture: 3 hours/ week**
	Practical: 4 hours/ week
Course coordinator:	**Dr. Mahmoud Abou Laila**

2- Professional information

1- Overall aims of course

Upon successful completion of the course, the student will be able to:.

- Identify different species of parasites with good Knowledge about their Taxonomy & morphological characters
- Professionally understand Biology of parasites, Survival strategies of parasites, the means of spread of parasites and behavioral ecology of different parasites
- Have the ability to analyze and interpret Host-parasite relationships, the Damage to host (the pathogenicity and the disease produced) and the public health importance of different parasites
- able to diagnose the parasitic infection and apply the recommended control measures.

2- Intended learning outcomes of course (ILOs)

a-Knowledge and understanding

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

a1- Identify the fundamental concepts of Parasitology and with the technical vocabulary used in this field.

a2- Describe morphological, biological and geographical criteria of different parasites.

a3- Recognize the parasite-drug interaction.

a4- Explain parasite-host interaction (Immune inter-relations between parasite and the host).

b-Intellectual skills

By the end of this course the graduate should be able to :-

b1- Interpret common taxa of parasites based on morphological, biologic and geographical criteria and clinical observation.

b2- Assess the differentiation between the behavior and ecology of different parasite species and stages in the environment.

b3- Specify the factors responsible for infection and disease caused by various parasites.

b4- Carry out a protection from infection with different zoonotic parasites.

b5- Carry out a protection to their society and environment from infection with parasites.

c-Professional and practical skills(p.p.s)

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

c1- collect and preserve different parasites.

c2- mount and identify different parasites.

c3- Carry out a diagnosis of different parasitic infection in different hosts.

c4- identify different parasites infecting different animals.

c5- Solve the problems for controlling the parasitic infection.

d-General and transferable skill

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

d.1. Work effectively as part of a team.
d.2. Make use of library facilities and IT tools.
d.3. Explore appropriate computer / keyboard skills including word
d.4. Present packages and graph plotting.

3- Topics and contents

Theoretical Topics	**No. of hours**		
	Lectures	**Practical**	**Total**
Introduction to Parasitology	8	-	**8**
Class: Trematoda	20	-	**20**
Class: Cestoidea	24	-	**24**
Class: Nematoda	30	-	**30**
Controle and diagnosis of helminthes	6	-	**6**
Phylum: Arthropoda	20	-	**20**
Control of arthropods	4	-	**4**
Kingdom: protozoa Introduction, Phylum: apicomplexa, saromastigophora, ciliaphora	16		**16**
Control of protozoal infections	4		**4**
Pracrical Topics			
Collection and preservation of different parasites		**20**	**20**
Mounting of different parasites		**20**	**20**
Demonstration of Trematode samples		**28**	**28**
Demonstration of cestode samples	-	**20**	**20**
Demonstration of nematode samples	-	**20**	**20**
Demonstration of arthropode samples	-	**28**	**28**
Demonstration of protozoal samples	-	**20**	**20**
Application of different drugs for control of	-	**20**	**20**

parasites			
Total	**132**	**176**	**308**

4- Teaching and learning methods

4.1. Lectures.
4.2. Practical sessions.
4.3. Self-learning and presentation.

5-Student assessment

a. METHODS:

Written exam	For assessment of knowledge, information and intellectual skills
Practical exam	For assessment of professional and practical skills
Oral exam	For assessment of knowledge, information and intellectual skills
Self learning activities	For assessment of knowledge, general and transferable skills

b. MATRIX ALIGNMENT OF THE MEASURED ILOS/ ASSESSMENTS METHODS:

Method	**Matrix alignment of the measured ILOs/ Assessments methods**			
	K&U (a)	**I.S (b)**	**P&P.S (c)**	**G.S (d)**
Final-Term exam	1,2,3,4	1,3,4		
Practical exam		2, 5	1,2,3,4,5	
Oral exam	1,2,3,4	1,3,4		
Self learning activities				1,2,3,4

c. WEIGHT OF ASSESSMENTS:

Assessment	**Allocated Mark**	**Evidence**
Final written exam	**50%**	Marked and signed written paper
Practical exam	**20%**	Marked and signed practical exam paper
Oral exam	**20%**	Signed list of oral exam marks
Self learning activities	**10%**	Signed list of presented materials

6- List of references

6.1. Essential books

1-Wall, R. and Shearer, D. (1997): Veterinary protozology. Published by chapman & hall, 2-6 boundary row, London SE1 8HN, UK.

2-Hendrix CH.M. and Robinson E. (2006): Diagnostic parasitology for veterinary technicians. Mosby inc. an affiliate of Elsevier inc.

3-Hendrix CH.M. (1998): diagnostic veterinary parasitology 1998 by mosby . inc.

4-Lapage, G. (1956): Veterinary parasitology. 1st publ., Edinburch: Tweeddale court, London.

5-Garcia L.S. (1999) practical guide to diagnostic parasitology American society for microbiology

6.3. Journals , Websites ……..etc

1- Parasitology today
2- The Journal of parasitology
3- www.asp.unl.edu/
4- www.aavp.org
5- www.dpd.cdc.gov
6- www.vetmed.wise.edu
7- PubMed
8- Science direct

Course coordinator: Dr. Mahmoud Abou Laila

Head of department: Prof. Dr. Nasr Moawad El-Bahy

Matrix alignment of course topics and ILOs

Theoretical Topic	No. of hours /week		Total hours	ILOs				T&L. methods				
	Lect.	Pract.		K&U (a)	I.S (b)	P.P.S (c)	G.T.S (d)	Lect.	Pract.	Self & active leaning	Audio visual	Case study
Introduction to Parasitology	8	-	8	1,2	1,2,3		1,2,3,4	√				-
Class: Trematoda	20	-	20	1,2	1,2		1,2,3,4	√		√	√	-
Class: Cestoidea	24	-	24	1,2	1,2		1,2,3,4	√		√	√	
Class: Nematoda	30	-	30	1,2,3,4	4,5		1,2,3,4	√				-
Control and diagnosis of helminthes	6	-	6	1,2	1,2,3		1,2,3,4	√		√	√	√
Phylum: Arthropoda	20	-	20	1,2	1,2		1,2,3,4	√				√
Control of arthropods	4	-	4	1,2	1,2		1,2,3,4	√		√	√	√
Kingdom: protozoa Introduction, Phylum: apicomplexa, saromastigophora, ciliaphora	16	-	16	1,2,3,4	4,5		1,2,3,4	√		√	√	-
Control of protozoal infections	4	-	4	1,2	1,2,3		1,2,3,4	√		√	√	-
practical Topic												
Collection and preservation of different parasites	-	20	20	1,2,5	1,2	1	1,2,3,4		√	√	√	
Mounting of different parasites	-	20	20	1,2,3,4	4,5	2	1,2,3,4		√			
Demonstration of Trematode samples	-	28	28	1,2	1,2,3	3-5	1,2,3,4		√			
Demonstration of cestode samples	-	20	20	1,2	1,2	3-5	1,2,3,4		√			
Demonstration of nematode samples	-	20	20	1,2	1,2	3-5	1,2,3,4		√			

Demonstration of arthropode samples	-	28	28	1,2	1,2	3-5	1,2,3,4		√			
Demonstration of protozoal samples	-	20	20	1,2,5	1,2	3-5	1,2,3,4		√			
Application of different drugs for control of parasites	-	20	20	1,2	4,5	3-5	1,2,3,4		√			
Total	**132**	**176**	**308**									