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

Helminthology
(685M)

MASTER COURSE SPECIFICATION

1- Basic information

University	**Sadat City**
Faculty	**Veterinary Medicine**
Course Code:	**685M**
Course title:	**Helminthology**
Department offering the Course:	**Parasitology**
Program title:	**Master in Veterinary Medical Sciences (parasitology)**
Contact hours/week:	**Lecture: 2 hours/ week**
	Practical: 2 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 helminthes, 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

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 different helminthes infecting different animals.

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

a3- Define parasitism and different vocabularies.

a4- Explain different methods for control of helminthes

b-Intellectual skills

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

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

b2- Differentiate between the behavior and ecology of different helminthes and stages in the environment.

b3- Detect the factors responsible for differentiation between infection and disease caused by various helminthes

b4- Characterize the protection from infection with different zoonotic helminthes.

b5- Explain the protection to the society and environment from pollution with helminthes.

c-Professional and practical skills

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

c1- Tabulate a differentiation between nematodes

c2-Apply a report on helminthes of ruminants.

c3- Apply a diagnosis of different parasitic infection in different hosts.

c4-Explore the basic knowledge of the parasite-drug interaction and parasite-host interaction.

c5- Predict the problems of controlling for parasitic infection.

d-General and transferable skill

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

d.1. Organize a work within a team.
d.2. Develop the use of library facilities and IT tools.
d.3. Enhance the appropriate computer / keyboard skills including word
d.4. Construct spreadsheets, presentation packages and graph plotting.

3- Topics and contents

Topic	No. of hours		
	Lectures	Practical	Total
Theoretical topics			
introduction	**12**	**-**	**12**
Class: Trematoda	**10**	**-**	**١٠**
Class: Cestoidea	**26**	**-**	**26**
Class: Nematoda	**36**	**-**	**36**
Control of different helminthes	**4**	**-**	**4**
Practical topics			
Collection of samples	**-**	**12**	**12**
Mounting of collected helminthes	**-**	**16**	**16**
Demonstration of different Trematodes	**-**	**20**	**20**
Demonstration of different cestodes	**-**	**20**	**20**
Demonstration of different nematodes	**-**	**20**	**20**
Total	**88**	**88**	**176**

4- Teaching and learning methods

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

5-Student assessment

a. METHODS:

Written examination	For assessment of knowledge, back calling and intellectual skills.
Practical examination	For assessment of practical and professional skills.
Oral examination	For assessment of knowledge and intellectual skills.
Student activities	For assessment of knowledge and general and transferable intellectual skills.

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

Assessments methods				
Method	**Matrix alignment of the measured ILOs/ Assessments methods**			
	K&U (a)	**I.S (b)**	**P&P.S (c)**	**G.S (d)**
Written exam	1,2,3,4	1,3,4		
Practical exam		2	1,2,3,4,5	
Oral exam	1,2,3,4	1,3,4,5		
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%**	Singed list of presented materials

6- List of references

6.1. Essential books

1-Ropberts, L. and Janvoy, J. (2006): foundations of parasitology. 6 th ed.

2-Gibson et al., (2002): keys to the trematoda. Vol. (1).

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

court, London.

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: **Head of department:**

Dr. Mahmoud Abou Laila Prof. Dr. Nasr Moawad El-Bahy

Matrix alignment of course topics and ILOs

Theoretical Topics	*weeks*	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	Audiovisual	Case stud y
introduction	6	12	-	12	a1,a2,a3	b1,b2, b5		d1	√	-	√	√	-
Class: Trematoda	5	10	-	10	a1,a3,a,4,	b1, b2, b5		d1	√	-	√	√	-
Class: Cestoidea	13	26	-	26	a1 ,a4,a2	b1, b2, b5		d1	√	-	√	√	-
Class: Nematoda	18	36	-	36	a1,a2,a3,a4,	b1,b3		d1	√	-	√	√	-
Control of different helminthes	2	4	-	4	a2,a3,a4	b1,b3		d1	√	-	√	√	-
Practical topics													
Collection of samples	*6*	-	12	12			C3	d1,d2	√	√	√	√	√
Mounting of collected helminthes	*8*	-	16	16			c1,c 2,c3 ,c5	d1,d2	√	√	√	√	√
Demonstration of different Trematodes	*10*	-	20	20			c1-4	d1,d2	√	√	√	√	√
Demonstration of different cestodes	*10*	-	20	20			c1-4	d1,d2,d4	√	√	√	√	√
Demonstration of different nematodes	*10*	-	20	20			c1-4			√			√
Total	*44*		*88*	*88*									