



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



Protozoology (686M)

MASTER COURSE SPECIFICATION

1- Basic information

University	Sadat City
Faculty	Veterinary Medicine
Course Code:	686M
Course title:	Protozoology
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:. <ul style="list-style-type: none">❖ Identify different species of protozoal parasites with good Knowledge about their Taxonomy & morphological characters❖ Professionally understand Biology of protozoa, Survival strategies, the means of spread and behavioral ecology of different protozoa.
2- Intended learning outcomes of course (ILOs)
<u>a-Knowledge and understanding</u>
By the end of this course the graduate should be able to: <ul style="list-style-type: none">a1- Identify the scientific progress in veterinary protozoology.a2- Describe morphological, biological and pathogenicity of different protozoa.a3- Match the protozoa infecting different animals.a4- Explain the ecology, geographical distribution and classification of protozoa.
<u>b-Intellectual skills</u>
By the end of this course the graduate should be able to :- <ul style="list-style-type: none">b1- Transform a preparing research plan in veterinary protozoology.b2- Interpret the endemicity of some enteric protozoa in some localities.b3- Explain the occurrence of babesiosis and other protozoal diseases .b4- Investigate a protection from infection with different zoonotic protozoa.b5- Optimize a protection to the society and environment from pollution with protozoa.
<u>c-Professional and practical skills</u>
By the end of this course the graduate should be able to: <ul style="list-style-type: none">c1- Determine different protozoa.c2- Apply permanent mounts for different protozoa .c3- Operate a diagnosis for blood, tissue and enteric protozoa.

c4- Investigate different protozoa.

c5- Assign a report on protozoa infecting different animals .

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. Summarize his research results effectively

3- Topics and contents

<i>Theoretical Topic</i>	No. of hours		
	Lectures	Practical	Total
Introduction and classification of protozoa	12	-	12
phylum : Apicomplexa	18	-	18
phylum: Sarcomastigophora	16	-	16
phylum : Sarcodina, ciliophora	24	-	24
phylum : Myxospora, phylum : Microspora	12	-	12
Control of protozoa	6	-	6
<i>Practical topics</i>			
Collection of samples	-	16	16
common steps for preparation of permanent samples	-	16	16
<i>Diagnosis and demonstration of blood protozoa</i>	-	16	16
<i>Diagnosis and demonstration of enteric protozoa</i>	-	16	16
<i>Diagnosis and demonstration of tissue protozoa</i>	-	24	24
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

N.B: The faculty by laws state that 50% of the grades are allocated for the written examination and the other 50% is for oral, periodical self-learning

activities and practical examinations.

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:

<u>Assessments methods</u>				
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

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

<u>6.1. Essential books</u>
1-Wall, R. and Shearer, D. (1997): Veterinary protozoology. 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-Lapage, G. (1956): Veterinary parasitology. 1st publ., Edinburch: Tweeddale court, London.

6.2. Recommended texts

1-Soulsby, E.J.L. (1986): Heminths, Arthropods and protozoa of domesticated animals. 7th ed. Baillier, Tidal and Cassel, London.

6.3. Journals , Websitesetc

- 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

7 Facilities required for teaching and learning

- a-Data Show and Computers.
- b- Overhead Projectors.
- c- Updating the Audio-Visual aids (Monitors,..etc.).
- d- Fast internet access (ADSL System, Fiber Optic Devices,etc).
- e- Library access (Text Books, Periodicals, Self Learning CDs, Others).

Course coordinator:

Dr. mahmoud Abou laila

Head of department:

Prof. Dr. Nasr Moawad El-Bahy

Matrix alignment of course topics and ILOs

<i>Theoretical Topic</i>	No. of hours /week		Total hours	ILOs				T&L. methods				
	Lect.	Pract.		K&U (a)	LS (b)	P.P.S (c)	G.T.S (d)	Lect.	Pract.	Self & active leaning	Audio visual	Case study
Introduction and classification of protozoa	12	-	12	1,2,3,4	1,2		1,2,3	√	-	√	√	
phylum : Apicomplexa	18	-	18	1,2,3	1,2,3		1,2,3	√	-			
phylum:Sarcomastigophora	16	-	16	1,2,3	1,2		1,2,3	√	-	√	√	
phylum : Sarcodina, ciliophora	24	-	24	1,2,3	1,2		1,2,3	√	-	√	√	
phylum : Myxospora, phylum : Microspora	12	-	12	1,2	1		1,2,3	√	-	√	√	
Control of protzoa	6	-	6	1,4	3,4,5		1,2,3	√	-	√	√	
<i>pracitical Topic</i>												
Collection of samples	-	16	16			1,2	1,2,3	-	√			
common steps for preparation of permanent samples	-	16	16			1,2,4	1,2,3	--	√	√	√	√
<i>Diagnosis and demonstration of blood protozoa</i>	-	16	16			1,3,4,5	1,2,3	-	√	√	√	√
<i>Diagnosis and demonstration of enteric protozoa</i>	-	16	16			1,3,4,5	1,2,3	-	√	√	√	√
<i>Diagnosis and demonstration of tissue protozoa</i>	-	24	24			1,3,4,5	1,2,3	-	√	√	√	√
Total	88	88	176									