Specific Parasitology (advanced) (693M)

MASTER COURSE SPECIFICATION

1- Basic information

University	**University of Sadat City**
Faculty	**Veterinary Medicine**
Course Code:	**693M**
Course title:	**Specific Parasitology (advanced)**
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:.
1- Identify different species of parasites infecting each animal spp (Helminthes, Arthropods

and Protozoa), with good Knowledge about their Taxonomy & morphological characters

2- 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 different protozoa infecting different animals.

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

a3 - Recognize the host parasite relationship.

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 differentiating between infection and disease caused by various parasites.

b4- Diagnose different helminthes.

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

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

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

c1- Collect different samples for different techniques..

c2- Isolation and identification of parasites and parasitic infections by different techniques.

c3- Diagnose different parasitic infection in different hosts by advanced methods.

c4- prepare samples for serological and immunological techniques.

c5-Use advanced techniques in diagnosis.

d-General and transferable skill

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

d.1. Select rational control programs for parasite population.

d.2. Enhance self learning.

d.3. Update the knowledge
d.4. Protect the environment from pollution with parasites.

3- Topics and contents

Theoretical Topic	No. of hours		
	Lectures	**Practical**	**Total**
Introduction, Host Parasite relation ship	**10**	**-**	**10**
Measures of diagnosis and control	**10**	**-**	**10**
Immunological aspects of parasitic infection	**10**	**-**	**10**
Topics related to the title of the student thesis	**10**	**-**	**10**
Diagnosis of Trematode infection	**10**	**-**	**10**
Diagnosis of Cestodes infection	**10**	**-**	**10**
Diagnosis of Nematodes infection	**10**	**-**	**10**
Diagnosis of protozoan infection	**10**	**-**	**10**
Diagnosis of arrthropods	**8**	**-**	**8**
Practical Topic			
Samples and sampling tachniqes		**8**	**8**
Isolation and identification of parasits and parasitic infections		**8**	**8**
Methods of diagnosis of Parasitic infections		**8**	**8**
Collection of parasitic samples		**8**	**8**
common steps for preparation of permanent samples (mounting process)		**8**	**8**
field trip: screening of parasites in nature		**8**	**8**
Topics related to the title of the student thesis		**8**	**8**
Samples and sampling techniques		**8**	**8**
Isolation and identification of parasites and parasitic infections by different techniques		**12**	**12**
Methods of diagnosis of Parasitic infections		**12**	**12**
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 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	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-Dawes, B. (1963): Advances in parasitology. Vol. (1-20).

2-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

Course coordinator: Dr. Mahmoud Abou Laila

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

Matrix alignment of course topics and ILOs

Theoritical 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, Host Parasite relation ship	**10**	-	**10**	**1,2,3,4**	**1,2**		**1,2,3**,4	√	-	√	√	
Measures of diagnosis and control	**10**	-	**10**	**1,2,3**	**1,2,3**		**1,2,3**,4	√	-			
Immunological aspects of parasitic infection	**10**	-	**10**	**1,2,3**	1,2,5		**1,2,3**,4	√	-	√	√	
Topics related to the title of the student thesis	**10**	-	**10**	**1,2,3**	**1,2**		**1,2,3**,4	√	-	√	√	
Diagnosis of Trematode infection	**10**	-	**10**	**1,2**	**1,5**		**1,2,3**,4	√	-	√	√	
Diagnosis of Cestodes infection	**10**	-	**10**	**1,4**	**3,4**		**1,2,3**,4	√	-	√	√	
Diagnosis of Nematodes infection	**10**	-	**10**	**1,4**	**3,4**		**1,2,3**,4	√	-	√	√	
Diagnosis of protozoan infection	**10**	-	**10**	**1,4**	**3,4**		**1,2,3**,4	√	-	√	√	
Diagnosis of arrthropods	**8**	-	**8**	**1,4**	**3,4**		**1,2,3**,4	√	-	√	√	
pracitical Topic												
Samples and sampling tachniqes	-	**8**	**8**			**1,2,5**	**1,2,3**,4	-	√			
Isolation and identification of parasits and parasitic infections	-	**8**	**8**			**1,2,4**	**1,2,3**,4	--	√	√	√	√
Methods of diagnosis of Parasitic infections	-	**8**	**8**			1,3,4,5	**1,2,3**,4	-	√	√	√	√
Collection of parasitic samples	-	**8**	**8**			1,3,4,5	**1,2,3**,4	-	√	√	√	√
common steps for preparation of permanent samples (mounting process)	-	**8**	**8**			1,3,4,5	**1,2,3**,4	-	√	√	√	√
field trip: screening of parasites in nature	-	**8**	**8**			1,3,4,5	**1,2,3**,4	-	√	√	√	√
Topics related to the title of the student thesis	-	**8**	**8**				**1,2,3**,4	-	√	√	√	√

						1,3,4,5						
Samples and sampling techniques	**-**	**8**	**8**			1,3,4,5	**1,2,3**,4	**-**	√	√	√	√
Isolation and identification of parasites and parasitic infections by different techniques	**-**	**12**	**12**			1,3,4,5	**1,2,3**,4	**-**	√	√	√	√
Methods of diagnosis of Parasitic infections	**-**	**12**	**12**			1,3,4,5	**1,2,3**,4	**-**	√	√	√	√
Total	**88**	**88**	**176**									