Veterinary Medical Entomology (684M)

MASTER COURSE SPECIFICATION

1- Basic information

University	**University of Sadat City**
Faculty	**Veterinary Medicine**
Course Code:	**684 M**
Course title:	**Veterinary Medical Entomology**
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 Abo Liala**

2- Professional information

1- Overall aims of course

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

- Identify different species of arthropods with good knowledge about their classification & morphological characters.
- Professionally understand biology of arthropods, medical importance of arthropods, the means of spread of arthropods and control of different arthropods

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 medical importance and classify the arthropods.

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

a3- Discuss myiasis producing flies.

a4- Clarify the medical importance and control of tick and mite.

b-Intellectual skills

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

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

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

b3- Specify the factors responsible for differentiating between infection and disease caused by arthropods.

b4- Identify the protection from infection with lice.

b5- Explore the importance of protection against fleas.

c-Professional and practical skills

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

c1- Prepare different arthropods slides.

c2- Construct a report files about different flies in Egypt.

c3- Graph mange in different hosts.

C4- Classify different arthropods.

c5- Apply different drugs for control and treatment of ticks

d-General and transferable skill

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

d.1. Develop a team work.
d.2. Design a presentation.
d.3. Communicate effectively
d.4. Prepare research results effectively.

3- Topics and contents

Theoretical Topic	No. of hours	
	Lectures	**Practical**
Introduction and classification of arthropoda	**16**	**-**
Class: Insecta , Suborder: cyclorrapha (myasis producing flies).	**14**	**-**
Suborder: brachycera , Suborder :Nematocera,	**12**	**-**
Order : Phthiraptera (lice) Order : Siphonaptera (fleas) Order : Hemiptera (Bug)	**14**	**-**
Order : Coleoptera (Beetles) Order : Hymenoptera (Ants)	**12**	**-**
Class: Arachnida (ticks, and mites)	**12**	**-**
Control of arthropods	**8**	**-**
Practical topics		
Collection, mounting and identification of different arthropods	**-**	**18**
Identifying Specimens in jars or box as; Lice, bugs, beetles, cockroaches, ants. Fleas,	**-**	**10**
Musca, Glossina, Stomoxys , Tabanus adult fly male & female	**-**	**10**
Myiasis producing flies and larvae	**-**	**10**
Ticks and mites	**-**	**10**
Mosquitoes, and phlebotomus	**-**	**10**
Diagnosis of mange	**-**	**10**
Application of different drugs for control and treatment of different arthropods	**-**	**10**
Total = (176)	**88**	**88**

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:

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	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 entomology. Published by chapman and hall, 2-6 boundary row, London SE1 8HN, UK.

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

3-Richard, W and Shearer, D. (2001): veterinary ectoparasites Biology, pathology and control. 2nd ed.

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: **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 study
Introduction and classification of arthropoda	8	16	-	16	a1,a2,a3	b1,b2, b5		d1	√	-	√	√	-
Class: Insecta , Suborder: cyclorrapha (myasis producing flies).	7	14	-	14	a1,a 4	b1, b2, b5		d1	√	-	√	√	-
Suborder: brachycera , Suborder :Nematocera,	6	12	-	12	a1 ,a4	b1, b2, b5		d1	√	-	√	√	-
Order : Phthiraptera (lice) Order : Siphonaptera (fleas) Order : Hemiptera (Bug)	7	14	-	14	a1,a2,a3,a4,	b1,b3		d1	√	-	√	√	-
Order : Coleoptera (Beetles) Order : Hymenoptera (Ants)	6	12	-	12	a2,a3,a4	b1,b3		d1	√	-	√	√	-
Class: Arachnida (ticks, and mites)	6	12	-	12	,a2,a3,a4	b2, b4,b5		d1,d2,d3	√	-	√	√	-
Control of arthropods	4	8		8	,a2,a3,a4	b2, b4,b5		d1,d2,d3	√	-	√	√	-

Practical topics

Collection, mounting and identification of different	*9*	-	18	18			1	d1,d2	√	√	√	√	√

arthropods													
Identifying Specimens in jars or box as; Lice, bugs, beetles, cockroaches, ants. Fleas,	***5***	**-**	**10**	**10**			**c1**	**d1,d2**	√	√	√	√	√
Musca, Glossina, Stomoxys , Tabanus adult fly male & female	***5***	**-**	**10**	**10**			**c1**	**d1,d2**	√	√	√	√	√
Myiasis producing flies and larvae	***5***	**-**	**10**	**10**			**c1**	**d1,d2,d4**	√	√	√	√	√
Ticks and mites	***5***	**-**	**10**	**10**			**c1, c2, c3**			√			√
Mosquitoes, and phlebotomus	***5***	**-**	**10**	**10**	**-**		**c1, c2, c3**	**-**	**-**	√	**-**	**-**	√
Diagnosis of mange	***5***	**-**	**10**	**10**			**c1, c2, c3, c5**			√	**-**	**-**	√
Application of different drugs for control and treatment of different arthropods	***5***	**-**	**10**	**10**	**-**		**c1, c2, c3,c4**	**-**	**-**	√	**-**	**-**	√
Total	***44***	***88***	***88***										