



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



# Snails and Their Veterinary Importance

## (689M)

### MASTER COURSE SPECIFICATION

#### 1- Basic information

University	Sadat City
Faculty	Veterinary Medicine
Course Code:	689 M
Course title:	Snails and their Veterinary Importance
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:.

- 1- Identify different species of Fresh water Snails, with good Knowledge about their Taxonomy & morphological characters.
- 2- Professionally understand Biology of snails, Survival strategies, the means of spread and Behavioral ecology of different species.
- 3- Analyze and interpret their medical importance ,Host-parasite relationships, and the public health importance of different species
- 4- 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:**

- a.1- Identify and classify the different snails
- a.2- discuss the fresh water snails and their role in transmission of disease.
- a.3- collect data related to brackish water snails and their medical importance.
- a.4-explain the methods of control of different snails and their best method.

### **b-Intellectual skills**

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

- b1- Interpret the high incidence of fashioliasis and shistosomiasis in Egypt.
- b2- Assess the differentiation between the different snails
- b3- Discuss spread of different parasites that transmitted through different snails
- b4- Identify the protection strategies against snail.
- b5- Explore the importance of protection against snail.

### **c-Professional and practical skills**

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

- c.1. collect of the snails and their rearing.
- c.2- identify the different snails.
- C.3- write professional report in different snails in Egypt.
- C.4-Apply the different drugs for control of snails.
- c.5- Apply control strategies against snail.

### **d-General and transferable skill**

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

- d.1- work in a research team.
- d.2- present his research results effectively.
- d.3-communicate effectively

### 3- Topics and contents

Theoretical Topic	No. of hours		
	Lectures	Practical	Total
Introduction to crustacia, Classification of snails	16	-	16
Fresh water snails	16	-	16
Brackish water snails	16	-	16
Land snails	16	-	16
Control measures	24	-	24
<b>practical Topic</b>			
Collection and rearing of snails.	-	16	16
Identification of different snails	-	16	16
field trip: screening of snails in nature	-	16	16
Examination of snails for infection with different parasites	-	16	16
Application of control measures	-	24	24
<b>Total</b>	<b>88</b>	<b>88</b>	<b>176</b>

### 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:

<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)
Final-Term exam	1,2,3,4	1,3,4,5		
Practical exam		2, 5	1,2,3,4,5	
Oral exam	1,2,3,4	1,3,4		
Self learning activities				

**c. WEIGHT OF ASSESSMENTS:**

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

**6- List of references**

<u>6.1. Essential books</u>
1. Soulsby, E.J.L. (1996): Heminths, Arthropods and protozoa of domesticated animals. 7 <sup>th</sup> ed. Baillier, Tidal and Cassel, London. 2. Garcia L.S. (1999) practical guide to diagnostic parasitology American society for microbiology
<u>6.3. Journals , Websites .....etc</u>
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

<i>Theoretical Topic</i>	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 crustacia, Classification of snails	16	-	16	1,2,3,4	1,2		1,2,3	√	-	√	√	
Fresh water snails	16	-	16	1,2,3	1,2,3		1,2,3	√	-			
Brackish water snails	16	-	16	1,2,3	1,2,4,5		1,2,3	√	-	√	√	
Land snails	16	-	16	1,2,3	1,2		1,2,3	√	-	√	√	
Control measures	24	-	24	1,2	1		1,2,3	√	-	√	√	
<i>practical Topic</i>							1,2,3					
Collection and rearing of snails.	-	16	16			1,2	1,2,3	-	√			
Identification of different snails	-	16	16			1,2,4	1,2,3	--	√	√	√	√
field trip: screening of snails in nature	-	16	16			1,3,4,5	1,2,3	-	√	√	√	√
Examination of snails for infection with different parasites	-	16	16			1,3,4,5	1,2,3	-	√	√	√	√
Application of control measures	-	24	24			1,3,4,5	1,2,3	-	√	√	√	√
Total	88	88	176									