



---

## Helminthology

Benha University

Faculty of Veterinary Medicine

### Course Specifications

Program on which the course is given: **Bachelor of Veterinary Medical Sciences**

Department offering the course: **Department of Parasitology**

Academic year / Level : **Third Year, 1<sup>st</sup> semester**

Date of specification approval: Ministerial decree No. 921 on 15/ 9/ 1987 (approved in this template by the Department Council on 28/ 9/ 2008)

### A- Basic Information

**Title:** Helminthology

**Code:** Vet 00634a

**Lecture:** 3 hours/week

**Practical:** 4 hours/week

**Total:** 7 hours/week

### B- Professional Information

#### 1 – Overall Aim of the Course:

Is to study the morphology, life cycle, pathogenesis, diagnosis, control, immunity and treatment of most important helminthes parasites affecting animals, birds and fish.

#### 2 – Intended Learning Outcomes of the Course (ILOs)

##### a- Knowledge and Understanding:

After successful completion of the course the students should be able to

a.1- describe the medical importance of helminthes

a.2- Classify and list helminthes of veterinary medical importance.

a.3- Illustrate the morphological characters and life cycle of important helminthes

a.4- Mention the medical importance of helminthes, and methods for diagnosis and control.

##### b- Intellectual Skills

After successful completion of the course the students should be able to

b1- Identify worms and their eggs.

##### c- Professional and Practical Skills

After successful completion of the course the students should be able to

c1- Identify fixed samples of helminthes, eggs and larvae.

##### d- General and Transferable Skills

After successful completion of the course the students should be able to

d1- Solve endemic helminthes problems

d2- Identify the diagnostic stages of worms.

### 3- Contents

Topic	No. of hours	Lecture	Tutorial/Practical
<b>Introduction</b>	3	3	-
<b>Trematodes</b>	17	9	8
<b>Snails</b>	6	2	4
<b>Trematodes of fish</b>	8	2	6
<b>Cestodes</b>	28	12	16
<b>Nematodes</b>	34	14	20
<b>Cestodes and Nematodes of fish</b>	7	1	6
<b>Immunity</b>	2	2	-
<b>Total</b>	105	45	60

### 4- content-ILOs matrix

Content	ILOs			
	Knowledge and understanding	Intellectual	Professional and practical	General and transferable
<b>Introduction</b>	A1	B1	C1	D2
<b>Trematodes</b>	A1,2,3,4	B1	C1	D1,2
<b>Snails</b>	A1	B1	C1	D1,2
<b>Trematodes of fish</b>	A1,2,3,4	B1	C1	D1
<b>Cestodes</b>	A1,2,3,4	B1	C1	D1
<b>Nematodes</b>	A1,2,3,4	B1	C1	D1
<b>Cestodes and Nematodes of fish</b>	A1,2,3	B1	C1	d1
<b>Immunity</b>	A1,2,3	B1	C1	d1



#### 5- Assessment-ILOS matrix

Assessment	ILOS			
	Knowledge and understanding	Intellectual	Professional and practical	General and transferable
Mid-term exam.	√	√	√	×
Final term Exam.	√	√	√	√
Oral Exam.	√	√	√	√
Practical Exam.	√	√	√	√
Semester Work√√	√	×	×	√

#### 4- Teaching and Learning Methods-

- 4.1- Over head projector in lectures
- 4.2- Demonstration of prepared slides by monitor in practical sessions.
- 4.3- Demonstration of prepared slides by light microscope.

#### 5- Student Assessment Schedule

- 5.1- Mid-term exam to assess knowledge, intellectual and general skills.
- 5.2- Practical exam to assess professional skills and diagnosis of helminthes.
- 5.3- Written exam to assess the ability of knowledge and intellectual skills.
- 5.4- Oral exam to assess the ability of the student for discussion and analysis.

#### Assessment Schedule

Assessment 1	Mid-term Exam	week...7 <sup>th</sup>
Assessment 2	Practical Exam	week...13 <sup>th</sup>
Assessment 3	Written Exam	week...15 <sup>th</sup>
Assessment 4	Oral Exam	week....15th

#### Weighting of Assessments

Midterm Examination	5%
Practical Examination	15%
Final Term Examination	50%



---

Oral Examination	20%
Semester Work	5%
Total	100%

## **6- List of References:**

### **6.1-Course Note:**

- a-General Veterinary Entomology and Protozoology
- b- Practical Entomology and Protozoology

### **6.2- Essential Books ( Text Books)**

- a-Helminthes , Arthropods and Protozoa of Domesticated Animals , Solusby, (1986)
- b- Animal parasitology (3<sup>rd</sup> Edition). J.d.smith.

### **6.3- Recommended Books**

- a- Medical parasitology (Fifth Edition) Markell. Voge. John.
- b- Immunity to parasites (2<sup>nd</sup> Edition) (1984). Derk Wakelin.

### **6.4- Periodicals, Web sites,..... etc**

## **7- Facilities Required for Teaching and Learning**

- 7.1-Advanced light microscope
- 7.2- Research microscope
- 7.3-Data-show.
- 7.4- P.M room.
- 7.5- Computer
- 7.6- Experimental animals

## **Course Coordinator:**

**Prof. Dr. Lobna El Aqbawey**

## **Head of the Department**

**Prof. Dr. Lobna El Aqbawey**

**Date:**