



## Course specification Zoonoses (first term)

### 1-Basic information

<b>Course Code:</b>	Zoo:5169
<b>Course title :</b>	Zoonoses (part I)
<b>Academic year:</b>	5 <sup>th</sup> academic year
<b>Program title:</b>	B. Sc. Veterinary Medical Sciences
<b>Contact hours/ week</b>	3 hours/week, (2 Lect./week- 1 practical)
<b>Approval Date</b>	

### 2-Professional information

**Overall aims of course:**

**This course aims to:**

- Supply the students with clear information about the epidemiology, occurrence, and socio-economic impact of bacterial, rodent zoonotic diseases (diseases that are naturally transmitted between man and vertebrate animals) as well as human diseases transmitted by animals.
- Illustrate the importance of one health concept during dealing with animals and environment.
- State different means for epidemiological investigation and control of the studied zoonotic diseases.

### 3- Intended learning outcomes of course (ILOs)

**a-Knowledge and understanding:**

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

- a.1. Recognize definition, etiology and occurrence of each zoonotic disease and specify the transmission mechanisms of zoonotic agents from animals to man.
- a..2. Identify the **epidemiological factors** necessary for producing infection of various zoonoses in human populations & delineate the control strategies applicable to prevent the spread of zoonoses.
- a..3. Describe the role played by the different species of domestic and wild animals and birds, the aquatic life and arthropod vectors and food in the epidemiology of various bacterial and rickettsial zoonoses and outline new zoonoses including those emerging as well as the pathologic entities that have been known for a long time, but for which the epidemiological connection between man and animals has been unclear until recently.
- a.4. Elicit the human diseases spread by animals and the role played by animals in such diseases and record information about the diseases previously considered to be exclusively human and recognized now to have their counterparts in wild animals.
- a..5. Distinguish the nature of diseases having no significance for the livestock but having public health hazards (e.g. Rodent-Borne Zoonoses).

**b-Intellectual skills**

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



## Course specification Zoonoses (first term)

- b.1. Relate the characteristic clinical picture of different bacterial, rickettsial rodent-borne zoonoses in the animal and human s
- b.2. Differentiate the emerging zoonoses and be aware of the measures of their prevention and control.

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

- c.1. Write a report on specific problems of possible zoonotic origin via analysis of case reports.
- c.2. Demonstrate photos of some lesions of the studied zoonotic diseases.
- c.3. Demonstration of some lab. tests related to specific zoonotic diseases.
- c.4. Demonstrate different species of rodents prevailing in Egypt.

### **d-General and transferable skills**

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

- d1- Work in a group and manage time in certain tasks.
- d2- Use different available resources for efficient obtaining of knowledge and Information.
- d3- Continuous interaction with the surrounding friends in the field concerning the new emerging zoonotic diseases in our country.

## 4-Topics and contents

Course	Topic	week	No. of hours	Lectures	Practical
5th year-First term Zoonoses 3 hours/week, (2 Lect./week- 1	-Introduction and epidemiology of zoonoses.	1,2	4	4	2
	-Bacterial Zoonoses	3,4,5,6,7	10	10	8
	-Bacterial food-poisoning	8,9	4	4	2
	-Rickettsial Zoonoses	10	2	2	1
	-Human diseases spread by animals	11,2	4	4	1
	-Rodents and their control	13	2	2	1
Total			39	26	13

## 5-Teaching and learning methods

- 5.1- Lectures (brain storm, discussion) using board, data shows and multimedia
- 5.2- Self learning by preparing essays and presentations on specific titles to each group using



## Course specification Zoonoses (first term)

computer researches and faculty library.

### 6-Teaching and learning methods for the students with disabilities

- Not applicable.

### 7-Student assessment

#### 7.1. Assessments methods:

Method	Matrix alignment of the measured ILOs/ Assessments methods			
	K&U	I.S	P&P.S	G.S
Written Exam	a1,a2,a3,a4,a5	b1,b2		
Practical exam			1,2,3,4	
Oral Exam	a1,a2,a3,a4,a5	b1,b2	c1,c2,c3,c4	d1,d2,d3

#### 7.2. Assessment schedules/semester:

Method	Week(s)
Practical exam	14 <sup>th</sup>
Written exams	14 <sup>th</sup>
Oral Exam	14 <sup>th</sup>
Student activities	Along the semester

#### 7.3. Weight of assessments:

Assessment	Weight of assessment
Written exams	50%
Practical exam	20%
Oral exam	20%
Student activities	10%
Total	100%

### 8- List of references

#### 8.1. Notes and books

-Hand outs

#### 8.2. Essential books:

-**Understanding zoonotic diseases.** (Romich, J.A) Thomson Delmar Learning, Australia, Brazil and USA. 2008.

-**Epidemiology and Public Health.** David M. Rollins



## **Course specification Zoonoses (first term)**

Online | NA Pages | English

-**Zoonoses, Biology, Clinical Practice, and Public Health Control** (Eds Palmer, S.R.; Soulsby, L. and Simpson, D.I.H.) Oxford Univ. Press, Oxford. 1998.

\*These book are available in the library of Faculty of Veterinary Medicine, Beni-Suef.

### **8.3. Recommended books**

- Public Health and Preventive Medicine (Eds Robert B. Wallace and Bradley N. Doebbeling) Appleton & Lange A. Simmon & Schuster, USA, 1993.

- Zoonoses (Ed Martin Shakespeare) 2nd Edition, Pharmaceutical Press, London, 2009.

\*These books are available in the library of faculty of veterinary medicine.

### **8.4. Journals, Websites ..... etc**

#### **Journals:**

Zoonoses and public health

International journal of zoonoses

Vector-borne and zoonotic disease

Global Veterinaria

Journal of food science

#### **Websites:**

-<http://www.WHO.int/en/>

-<http://www.CDC.com/>

-<http://www.OIE.com>



## Course specification

Topic	Week	Intended learning outcomes of course (ILOs)			
		K&U (a)	I.S (b)	P.P.S (c)	G.T.S (d)
-Introduction and epidemiology of zoonoses.	1,2	a1a2	b1,b2	c1	d1,d2,d3
-Bacterial Zoonoses	3,4,5,6,7	a 1, a 2, a 3	b1,b2	c1,c2,c3,cc 4	d1,d2,d3
-Bacterial food-poisoning	8,9	a 1, a 2, a 3	b1,b2	c1,c2,c3,cc 4	d1,d2,d3
-Rickettsial Zoonoses	10	a 1, a 2, a 3	b1,b2	c1,c2,c3,cc 4	d1,d2,d3
-Human diseases spread by animals	11,2	a 1, a 2, a 4	b1,b2	c1,c2,c3,cc 42	d1,d2,d3
-Rodents and their control	13	a 1, a 2, a 5	1,2	c1,c2,c3,cc 4	d1,d2,d3

**Course Coordinators**  
**Dr. Gihan Kamal eldin Abdel-Latef**

**Head of Department**  
**Dr. Mohamed Ali Ibrahim**

