



## Course specification

### **1-Basic information**

<b>Course Code:</b>	<b>INF:5166</b>
<b>Course title:</b>	Infectious diseases <b>part 11</b> .
<b>Academic year:</b>	5 <sup>th</sup> academic year 2020- 2021, First semester
<b>Program title:</b>	B. Sc. Veterinary Medical sciences
<b>Contact hours/ week</b>	2 hours/week, (2 Lect./week, 2 Practical/week)
<b>Approval Date</b>	

### **2-Professional information**

#### **Overall aims of course:**

#### **This course aims to:**

1. Provide graduates with professional and good veterinary practices concerning diagnosis and control programs to be competent and participate efficiently in the labor market.
2. Support the basic knowledge of etiology, epizootiology, clinical signs, and diagnosis and control measures of different infectious diseases of ruminants.
3. Outline the nature of microbial pathogenesis.
4. Deal with field problems of animal infectious diseases.



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5. Apply and demonstrate an understanding of basic control and management procedures including isolation, quarantine and disinfection.
6. Gain skills and ability to deal with field differential diagnosis of infectious diseases of ruminants.

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

#### **A-Knowledge and understanding:**

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

- a1- Explain the basic terms and methods used in infectious disease epidemiology, disease prevention and control trials, outbreak investigation, and evaluation of screening tests;
- a2- Define epidemiologic approaches of disease occurrence in communities: determinants, distribution and dynamics including prevention and control.
- a3- Identify the basic knowledge about etiological agents of different infectious diseases of ruminants.
- a4- define the infectious disease determinants (Agent-Host Environment), gradient of infection and infection chain.
- a5- describe the pathogenesis of different infectious diseases of ruminants.
- a6- list the major field problems concerned with infectious diseases of ruminants.



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- a7- Identify the important aspects regarding the diagnosis of different infectious diseases of ruminants.
- a8- mention the basic knowledge about the control measures of different infectious diseases of ruminants.

### **B- Intellectual skills**

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

- b1-Differentiate the infectious cycle of different infectious diseases to suggest the priority of elimination of selected communicable diseases.
- b2- analyze the field problems to reach a preliminary diagnosis.
- bB3- Interpret the available epidemiological and clinical data to achieve diagnosis.
- b4- suggest the suitable solutions in individual cases and outbreaks.
- b5- estimate the economic impact of different epidemics.
- b6- enhance the ability in decision making about the control measures and solving the field problem.
- b7- differentiate between infection status and infectious disease.
- b8- recall and integrate the basic knowledge to take a final decision in dealing with different epizootics.

### **C-Professional and practical skills**

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



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- c1- Apply epidemiologic skills in outbreaks investigation.
- c2- obtain a history of farm epizootics.
- c3- perform the different methods and techniques of clinical examination.
- c4- Perform the different sampling methods.
- c5- use different diagnostic tools in diagnosis of infectious diseases and interpret the common clinical and laboratory diagnostic outcome.
- c6- practice the experience of using the traditional and to certain extent the sophisticated methods of laboratory diagnosis.
- c7- acquire the experience of planning and application of a control programs.

### **D-General and transferable skills**

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

- d1-enhance the skills of problem definition and how to deal with it.
- d2-enhance skills of epizootiological data analysis, and clinical and laboratory examinations.
- d3- work effectively as a part of a team, demonstrating decision making and time management.
- d4- enhance the experience of taking history in infected farms and increase the ability of organizing control programs.
- d5- collect the data of diseased animals in a suitable manner.
- d6- demonstrate oral and written communication skills with staff.



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### 4-Topics and contents

Course	Topic	No. of hours	No. of hours (Lectures)	No. of hours (Practical)
<b>5<sup>th</sup> academic year- first term infectious disease 4 hours/week, (2 Lect./week, 2 Practical/week)</b>	<b>Introduction of infectious diseases</b> <ul style="list-style-type: none"> <li>• Epidemiologic Triad,</li> <li>• The chain of Infection cycle</li> <li>• Outcome of infection</li> <li>• Maintenance of infection,</li> <li>• Exotic and immerging diseases</li> <li>• Principles of disease control</li> </ul>	12	6	6
	<b>infectious diseases causing abortion in cattle</b>	12	6	6
	<b>Bacterial, mycotic and</b>	16	8	8



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	<b>rickettsial diseases of cattle</b>			
	<b>Viral diseases of cattle</b>	16	8	8
	<b>Prion diseases</b>	4	2	2
	<b>Infectious disease of camel</b>	4	2	2
		64	32	32

#### **5-Teaching and learning methods**

**5.1- Lectures and oral presentations**

**5.2- Clinical sections, clinical skills training and laboratory practicals**

**5.3- The use of multimedia aids e.g. slide projector, data show, video tapes.**

**5.4- Campaigns and field trips which organized by the Department and the Faculty for serving the surrounding society and applied teaching for students.**

**5.5- Summer training organized by the Department and the Faculty.**

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

**Office hours.**

#### **7-Student assessment**



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### 7.1. Assessments methods:

Method	Matrix alignment of the measured ILOs/ Assessments methods			
	K&U	I.S	P&P.S	G.S
Final Exam	1,2,3,4,5,6	2,3,5,6,7	6	1
Practical Exam	1	3	2, 4,5	1,2
Oral Exam	1,2,3,4,5,6,7,9,10	3,5,7,8,9,10		1,2

### 7.2. Assessment schedules/semester:

Method	Week(s)
Practical exams	14 <sup>th</sup> week
Final exams	managed by administrations
Oral Exam	managed by administrations
Student activities	Along the course ( seminars in groups)

### 7.3. Weight of assessments:

Assessment	Weight of assessment
Practical exams	20%
Final exams	50%
Oral Exam	20%
Student activities	10%
Total	100%



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### **8- List of references**

#### **8.1. Notes and books**

- Infectious diseases of domestic animals (2004/1588) by H.I.Hosein (2015) 3<sup>th</sup> Ed.

#### **8.2. Essential books:**

- Veterinary medicine 7<sup>th</sup> ed (A text book of the diseases of cattle, sheep, pigs, goats and horses) 1983.
- Veterinary clinical diagnosis 3<sup>th</sup> Ed. 1984
- Cattle diseases 1984
- Infectious diseases of domestic animals (2004/1588) by H.I.Hosein (2015) 3<sup>th</sup> Ed.

#### **8.3. Recommended texts**

- The Merck veterinary manual 9<sup>th</sup> 2005

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

##### **Journals:**

Journal of Veterinary Science  
Research in Veterinary Science  
Preventive Veterinary Medicine  
Veterinary journal





Beni-Suef University  
Faculty of Veterinary Medicine



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Journal of Veterinary Diagnostic Investigation

### **Websites:**

- 1-[www.google.com](http://www.google.com)
- 2-[www.OIE](http://www.OIE)
- 3-[www.FAO](http://www.FAO)
- 4-[www.Canine web sites](http://www.Canine web sites)

### **Course Coordinators**

Dr. Sherin Reda Rouby

### **Head of Department**

Dr. Hosein Abd Al Aal



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Topic	Week	Intended learning outcomes of course (ILOs)			
		K&U (a)	I.S (b)	P.P.S (c)	G.T.S (d)
Introduction of infectious diseases	1,2	1	1,6	1	
infectious diseases causing abortion in cattle	4,5,6	1,2,3,4,5	1,2,3	1,6	1,2
Bacterial, mycotic and rickettsial diseases of cattle	7,8,9,10	1,2,3,4	3,5,7	,16	1,2
Viral diseases of cattle	11,12,13	1,2,3,4,5	2,3,5	1,6	1,2
Prion diseases	14	2,3,4	2,3,4	-	1,2
Infectious disease of camel	15,16	3,4,5	1,2,3,5	1,6	1,2

