

#### Beni-Suef University Faculty of Veterinary Medicine Department of animal Medicine

# Program Specification for PhD Degree 2017-2018

#### A-Basic information:

- 1- Course title: PhD VSC. Specialty: Infectious Diseases
- 2- Program type: Single
- 3- Department offering program: Department of animal Medicine
- **4- Academic year:** 2017-2018
- 5- Approval date of Department Council:
- 6- Approval date of Faculty Council:
- 7- External evaluator:

#### **B-Professional information:**

#### 1- Overall aims of the program:

- 1- Apply the analytical and evaluating approaches to the knowledge of infectious diseases diagnosis, prevention and control and other related sciences.
- 2- Master the principles of scientific research.
- 3- Master wide range of professional skills and techniques in diagnosis of infectious diseases.
- 4- Integrate the acquired knowledge about infectious diseases with the other related sciences and develop the relations in between.
- 5- Identify the practical problems facing animal industry and find solutions.
- 6- Make decisions depending on the available data in different professional and practical contexts.
- 7- Perform self-development and continuous learning and transfer the acquired knowledge and experience to others.
- 8- Improve the skills of writing dissertations and scientific papers.

#### 2- Intended learning outcomes of course (ILOs):

#### a- Knowledge and understanding:

By the end of this PhD program the graduate should be able to:

- a.1. Acquire the recent theories in the field of infectious diseases and related sciences.
- a.2. Identify advanced scientific research principles, regulations, ethics and its different tools.
- a.3. Identify the legal and moral rules in different infectious diseases diagnostic, preventive and control practices.
- a.4. Understand the principles of development of livestock production.
- a.5. Be aware of his role in community development and environment protection.

#### b- Intellectual capacity:

By the end of this PhD program the graduate should be able to:

- b.1. Analyze and evaluate knowledge related to infectious diseases and Interpret the available data to solve the related problems.
- b.2. Solve problems affecting domestic animals using the available data.
- b.3. Conduct research studies that add new knowledge to the infectious diseases.
- b.4. Write scientific papers.
- b.5. Identify the risk factors related to diagnosis, prevention and control of infectious diseases.
- b.6. Take decisions using the available information in different practices related to infectious diseases

#### c- Professional and practical skills:

By the end of this PhD program the graduate should be able to:

- c.1. Perform different conventional and advanced techniques in the field of diagnosis of infectious diseases.
- c.2. Write and evaluate reports related to diagnosis of infectious diseases.
- c.3. Assess and improve different available tools and methods regarding diagnosis, prevention and control of infectious diseases.
- c.4. Properly use the suitable technologies to serve professional practices.
- c.5. Enhance the performance of others through proper planning.

#### d- General and transferable skills:

On successful completion of this program the graduate should be able to:

- d.1. Use the information technologies for development of professional abilities.
- d.2. Perform self-development and continuous learning and transfer the acquired knowledge and experience to others.
- d.3. Utilize the resources to obtain knowledge and information.
- d.4. Learn how to work effectively as part of a team and effectively lead teamwork.
- d.5. Manage scientific meetings and discussions.

#### 3- Academic standers

\* The faculty mission, vision and strategic objective are confirmed to the academic standard. The learning outcomes are in line with the department and the faculty mission.

\* Postgraduates NARS (March 2009) Master degree chapter issued by national authority for quality assurance and accreditation of education (NAQAAE) and Veterinary medicine post graduate academic standards (ARS) for the faculty of veterinary medicine, Beni-Suef University, Beni-Suef, Egypt are selected to confirm the appropriateness of the academic standards.

ARS (National Academic Reference Standards) prepared by NAQAAE.

#### 4- Curriculum Structure and Contents

A- **Program duration**: At least three academic years from the approval of registration by the Faculty Council and maximum five years. The faculty council has the right to give the applicant another period not exceed two years according to the supervisor request. The first year for preliminary courses study, while the second and third years for researches and preparation of the PhD Thesis.

# B- Program structure: 3-5 preliminary courses

6-8

#### Hours/ week:

Theoretical

6-8

Practical

12-16

Total

#### C- Program courses

Codo		Hours /	week	Academic	Teaching	
Code	Course title	Theoretical	Practical	year	duration	
Vary according to the selected course	Selected (3-5) courses depending on the thesis title from the various Faculty PhD courses other than specialty of the Master.	6-8	6-8	Preliminary year	36 weeks	

**D-** Courses contents

See courses specification

#### 5- Program Admission Requirements

\* According to the Faculty of Veterinary Medicine, Beni-Suef University, Post Graduate Programs, applicants should have a master degree in the specialization subject he will register in one of the Egyptian Universities or an equivalent degree from any approved university or another recognized scientific institute.

\* According to Beni-Suef University requirements, all applicants for postgraduate studies should fulfill preliminary courses on the following subjects:

1-English language (Toefl or equivalent degree)

\* Admission to the program is open during March and September annually.

\*The faculty council has the right to suspend the student enrolment for a certain period if he has acceptable excuse preventing him from continuing his study or research.

#### 6. Regulations for Progression and Program Completion

After finishing the preliminary courses, the graduate student will be eligible to sit for the examination according to the following rules:

No. of course teaching	Allowed written	Degree						
hours/ week	exam time	Theoretical	Practical and oral exam					
≥ 3 hours	3 hours	50	50					
≤ 3 hours	2 hours	25	25					

-The faculty council has the right to deprive the applicant from entering the exams if his attendance of the courses is less than 75%.

-Failure or depriving from entering one or more course did not requires reexamination of successful passed courses.

-The applicant should submit a seminar within 2 years after registration about his research and specialization subject filed that accepted by a committee of professors and assistant professors (3 in number).

-the applicant should submit the thesis that accepted by the judging committee in an open discussion and the following polices should be met:

-pass all preliminary curriculums successfully.

-acceptance of the seminar presented by the applicant.

-The applicant should publish at least two scientific papers from the thesis in local or international journals

#### **Qualification grades:**

Excellent	≥ 90					
Very good	≥80					
Good	≥70					
Pass	≥60					
Failed	45 to less than 60 weak					
	Less than 45 Very weak					

After passing, the graduate starts research for Ph.D. Thesis at the beginning of the second year. The candidate will receive his degree after evaluating and approving the thesis by a committee according to University regulations.

#### 7-Graduate student assessment

#### **A: Assessment Tools**

According the Faculty of Veterinary Medicine, Beni-Suef University, Post Graduate, students should be assessed at the end of preliminary year and the thesis should be evaluated and approved by a committee after at least three years from registration date according to University regulations.

#### Preliminary year

Assessments methods for each course	Practical exam	Oral exam	Written exam		
Time of Assessments	during December	during December	during December		
Marks	25	25	50		

#### Ph.D. Thesis:

The Ph.D. students should prepare a thesis in infectious diseases. The department and the ethical committees must approve the protocol of the research. The thesis includes a review part with a practical part. The thesis is supervised by two or more staff members and may include other specialties according to the nature of the research. The thesis should be evaluated and approved by a committee according to University regulations.

#### B- Matrix alignment of the measured ILOs

Assessments	N	Aatrix alignment of	the measured ILO	S
methods	K&U (a)	I.S (b)	P&P. S (c)	G&T. S (d)
Writton Evam	21 22 22 24 25	b1-b2-b3-b4- b6-		
Whiten Exam	a1-a2-a5-a4-a5	b7		
Practical Exam		b1-b2-b3-b4- b6	c1-c2-c3-c4	
Oral Exam	a1-a2-a3-a4-a5	b1-b2-b3-b4- b6-	c1-c2-c3-c4	d1-d2-d3

#### 8- Evaluation of Program Intended Learning Outcomes

Evaluator	ΤοοΙ	Sample
1. Post graduate students	Questionnaire at the end of	All the PG students
	the program	
4. External evaluators	Review program and courses	Once before implementation
	Attending the final exam	annual report
5. College Quality Assurance	Annual program reviewer	
Committee		

|--|

		ŀ	Knowledge and				Int	ellec	tual	skills	5	Pro	ofess	iona	ıl an	d	General and					
Academic		T	unde	ersta	ndin	g							pr	acti	cal s	kills		transferable skills		lls		
standers		<b>a</b> 1	a2	a3	a4	a5	b1	b2	b3	b4	b5	b6	c1	c2	c3	c4	c5	<b>d1</b>	d2	d3	<b>d4</b>	d5
Program ILOs																						
Knowledge and	a1																					
understanding	a2																					
	a3																					
	a4																					
	a5																					
Intellectual	b1																					
skills	b2																					
	b3																					
	b4																					
	b5																					
	b6																					
Professional	c1																					
and practical	c2																					
skills	c3																					
	c4																					
	c5																					
General and	d1																					
transferable	d2																					
skills	d3																					
	d5																				v	
	u.J	1	1	1	1	1		1	1		1					1	I	1	1	1		N

			•			•			
	Program ILOs	Program aims							·
		1. Apply the analytical and evaluating approaches to the knowledge of infectious diseases diagnosis, prevention and control	2. Master the principles of scientific research	3. Master wide range of professional skills and techniques in diagnosis of infectious diseases	4. Integrate the acquired knowledge about infectious diseases with the other related sciences and develop the relations in between.	5.Identify the practical problems facing animal industry and find solutions.	6 Make decisions depending on the available data in different professional and practical contexts.	7. Perform self- development and continuous learning and transfer the acquired knowledge and experience to others	8.Improve the skills of writing dissertations and scientific papers
lding	<ul> <li>a.1. Acquire the recent theories in the field of infectious diseases and related sciences.</li> <li>a.2. Identify advanced ciontific recearch</li> </ul>		√ √		V				
Knowledge and understan	principles, regulations, ethics and its different tools.								
	a.3. Identify the legal and moral rules in different infectious diseases diagnostic, preventive and control practices	V	V		V				
	a.4. Understand the principles of development of	V	V						

# Program aims – ILOS Matrix for the PhD program مصفوفة اهداف البرنامج مع مخرجات التعلم المستهدفة

	Program <b>ILOs</b>	Program aims							
	livestock production.								
	a.5. Be aware of his role in community development and environment protection.		V		V			V	
	b.1. Analyze and evaluate knowledge related to infectious diseases and Interpret the available data to solve the related problems	V		√		V			V
Intellectual skills	b.2. Solve problems affecting domestic animals using the available data.						V		
	b.3. Conduct research studies that add new knowledge to the infectious diseases						V	V	
	b.4. Write scientific papers.								V
	b.5. Identify the risk factors related to diagnosis, prevention and control of infectious diseases.			V		V	V		
	b.6. Take decisions using the available						V		V

	Program ILOs	Program aims						
	information in different practices related to infectious diseases							
	c.1. Perform different conventional and advanced techniques in the field of diagnosis of infectious diseases.	V	V					
Practical and professional skills	c.2. Write and evaluate reports related to diagnosis of infectious diseases.					V	V	V
	c.3. Assess and improve different available tools and methods regarding diagnosis, prevention and control of infectious diseases.	V			V			
	c.4. Properly use the suitable technologies to serve professional practices	V		V	V			
	c.5. Enhance the performance of others through proper planning		V				V	
General and transferable	d.1. Use the information technologies for development of professional abilities.				V		V	

Program <b>ILOs</b>	Program aims						
d.2. Perform self- development and continuous learning and transfer the acquired knowledge and experience to others.				V		V	
d.3. d.3. Utilize the resources to obtain knowledge and information		V		V			
d.4. Learn how to work effectively as part of a team and effectively lead teamwork			V		V		V
d.5. d.5. Manage scientific meetings and discussions					V	V	V

# PhD Program Specification Matrix

# (Program Courses with ILOS)

#### 83,87,88,89, 91, 92,99,102, 131,132,133,134,135,136,137, 140,141,142,143,144,145,146,147, 212,213,214

Program ILOs		Courses		
	a1	Ph-140, Ph-141, Ph-142, Ph-144, + thesis		
Knowledge	a2	Ph-142, Ph-143, Ph-131, Ph-136, Ph-131+ thesis		
and	a3	Ph-131, Ph-141, Ph-144, Ph-146, Ph-135, + thesis		
understanding	a4	Ph-140, Ph-141, Ph-142, Ph-143, Ph-144, Ph-145, Ph-146, Ph-147, + thesi		
	a5	Ph-140, Ph-131, Ph-132, Ph-134, Ph-145, Ph-136, + thesis		
	b1	Ph-140, Ph-141, Ph-132, Ph-133, + thesis		
	b2	Ph-102, Ph-91, Ph-142, Ph-133, + thesis		
Intellectual	b3	Ph-140, Ph-144, Ph-147, Ph-134, + thesis		
skills	b4	Ph-140, Ph-131, Ph-132, Ph-83, Ph-88, + thesis		
	b5	Ph-140, Ph-141, Ph-142, Ph-143, Ph-144, + thesis		
	b6	Ph-131, Ph-141, Ph-132, Ph-133, Ph-144, + thesis		
	c1	-83, Ph-99, Ph-92, Ph-102, Ph-202, + thesis		
Professional	c2	'h-140, Ph-141, Ph-142, Ph-143, Ph-212, + thesis		
and practical	c3	Ph-140, Ph-131, Ph-92, Ph-214, Ph-145, + thesis		
skills	c4	Ph-99, Ph-102, Ph-132, Ph-133, Ph-213+ thesis		
	c5	Ph-140, Ph-141, Ph-137, Ph-91, Ph-214, + thesis		
	d1	Ph-140, Ph-89, Ph-99, Ph-102, Ph-212, + thesis		
General and	d2	Ph-87, Ph-88, Ph-89, Ph-102, + thesis		
transferable	d3	Ph-140, Ph-141, Ph-142, Ph-143, Ph-144, Ph-145, Ph-146, Ph-147, + thesis		
skills	<b>d4</b>	Ph-140, Ph-131, Ph-132, Ph-133, Ph-134, Ph-135, Ph-136, + thesis		
	d5	Ph-140, Ph-141, Ph-132, Ph-143, Ph-144, Ph-145, Ph-146, Ph-147, + thesis		

Programme coordinator:	
Name Sherin Rouby	
Signature	Date
Head of the Department:	
Name: Hosein Abd Al Aal	
Signature	Date





**1-Basic information** 

<b>Course Code:</b>	<i>PhD</i> -140
<b>Course title:</b>	Infectious diseases of cattle
<b>Program title:</b>	PhD
<b>Contact hours</b> /	4 hours per week (2 theoretical and 2 practical)
week	
<b>Approval Date</b>	

#### **2-Professional information**

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

#### This course aims to:

Recognize the theories, principles and basics of infectious diseases and other related sciences, employ the acquired knowledge of infectious diseases of cattle together with other related topics, master different professional skills and techniques in diagnosis, prevention and control of infectious diseases of cattle and deal with field problems of cattle infectious diseases. Also, to support the basic knowledge about etiology, epizootiology, clinical sings, and diagnosis and control measures of infectious diseases of cattle and provide opportunities to understand the molecular and cellular mechanisms of disease process and gain skills and ability to deal with field differential diagnosis, treatment and control of infectious diseases.

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

#### A-Knowledge and understanding:

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

a1- describe advanced research techniques used in the field of infectious diseases.

a2- identify the basic knowledge about etiological agents and pathogenesis of different infectious diseases of cattle.

a3- list the major field problems concerned with infectious



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# **Course specification**

diseases of cattle.

a4- identify the important aspects regarding the diagnosis of different infectious diseases of cattle.

a5- mention the basic knowledge about the treatment and control measures of different infectious diseases of cattle.

# **B- Intellectual skills**

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

b1- analyze the field problems to reach a preliminary diagnosis.

b2- suggest the suitable solutions during outbreaks and interpret the available data.

b3- use the basic information for analysis of epidemics of cattle and interpret the available data to achieve diagnosis.

b4 -enhance the ability to differentiate between infectious diseases of cattle.

# **C-Professional and practical skills**

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

c1- perform the different methods and techniques of clinical examination.

c2- perform the different sampling methods.

c3- acquire the experience of planning of a control program.

c4- plan and apply the different methods of control programs.

c5-use epidemiological information of the early warning system for early diagnosis of infectious diseases.

# **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- enhance the experience of taking history in infected farms and Increase the ability of organizing control programs.

d4- collect the Data of diseased animals in an informative and suitable manner.





<b>4-Topics</b> a	nd contents			
Course	Topic	Hours	Lectu	Practi
			res	cal
	Principles of epidemiology	24	12	12
	Natural history of disease			
	Iceberg phenomena			
ttle	Exotic diseases			
ca	Transboundary diseases			
of of	Principles of disease control.			
ISE	20	10	10	
sea				
; di	20	10	10	
sno				
cti	Infectious diseases of dairy	20	10	10
nfe	cattle			
	Sudden death syndrome	20	10	10
	Neurological disorders	20	10	10
	Prescribed tests	20	10	10
	Total	144	72	72

5-Teaching and learning methods

**5.1-** Lectures and oral presentations

**5.2-** Clinical sections.

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

6-Student assessment

6.1. Assessments methods:

Method	Matrix alignment of the measured ILOs/ Assessments methods				
	K&U	I.S	P&P.S	G.S	
Final Exam	a1- a2- a3-a4-a5	b2- b3-b4			
Practical Exam		b1	c-4	d1	
Oral Exam	a1- a2- a3- a4	b1- b2-			
		b3-b4			

# **6.2.** Assessment schedules/semester:





Method	Week(s)
Writing exam	During December
Practical exam	During December
Oral exam	During December

# 6.3. Weight of assessments:

Assessment	Weight of assessment
Writing exam	50%
Practical exam	25%
Oral exam	25%
Total	100%

# 7 List of references

#### 7.1. Notes and books

- Infectious diseases of domestic animals (2004/1588) by H.I.Hosein  $(2018) 4^{\text{th}} \text{ Ed.}$ 

# 7.2. 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
- Diseases of sheep 2<sup>nd</sup> Ed. 1982
- A color atlas of small animal dermatology 1985

# 7.3. Recommended texts

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

# 7.4. Journals, Websites ......etc

#### **Journals:**

Journal of Veterinary Science **Research in Veterinary Science** Preventive Veterinary Medicine Journal of Veterinary Diagnostic Investigation

# Websites:

2-www.OIE 3-www.FAO



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# **Course specification**

#### **Course Coordinators**

# Head of Department

Dr. Hosein Abd Al Aal





Torio	Week	Intended learning outcomes of cou (ILOs)			
Горіс		K&U (a)	I.S (b)	P.P.S (c)	G.T.S (d)
<ul> <li>Principles of epidemiology</li> <li>Natural history of disease</li> <li>Iceberg phenomena</li> <li>Exootic diseases</li> <li>Transboundry diseases</li> <li>Principles of disease control</li> </ul>	1-6	a2, a3			
<ul> <li>epidemiology of diseases of newly born animals Problem of calf Enteritis</li> <li>Problem of calf pneumonia</li> </ul>	7-11	a1- a2- a3- a4	b1-b2- b3-b4		d1- d2 d3
Infectious diseases of fattening steers	12-16	a1- a2- a3- a4	b1-b2- b3-b4		
Infectious diseases of dairy cattle	17-21	a1- a2- a3	b1-b2- b3-b4	c2, c4	d3, d4
Sudden death syndrome	22-26	a1- a2- a3- a4	b3-b4	c2	
Neurological disorders	27-31	a1- a2	b1-b2- b3		
Prescribed tests	32-36	a1- a2	b1-b2- b3	c2, c4	





**1-Basic information** 

<b>Course Code:</b>	<i>PhD</i> -141
<b>Course title:</b>	Infectious diseases of sheep and goats
Program title:	PhD
<b>Contact hours</b> /	4 hours per week (2 theoretical and 2 practical)
week	
Approval Date	

**2-Professional information** 

**Overall aims of course:** 

# This course aims to:

Recognize all theories, principles and basics of area of learning of infectious diseases of sheep and goats as well as other related sciences, employ the acquired knowledge of infectious diseases of sheep and goats together with other related topics and master different professional skills and techniques in diagnosis, prevention and control of infectious diseases of sheep and goats. Also, to support the basic knowledge about etiology, epizootiology, clinical sings, and diagnosis and control measures of infectious diseases of infectious diseases of sheep and goats, demonstrate an understanding of basic control management procedures and protocols including isolation, quarantine and disinfection and provide opportunities to understand the molecular and cellular mechanisms of disease process.

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

A-Knowledge and understanding:

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

a1- Describe advanced research techniques used in the field of infectious diseases.

a2- Identify the basic knowledge about etiological agents and pathogenesis of different infectious diseases of sheep and goats.

a3- list the major field problems concerned with infectious diseases of sheep and goats.



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# **Course specification**

a4- Mention the basic knowledge about the treatment and control measures of different infectious diseases of sheep and goats.

a5- Identify the important aspects regarding the diagnosis of different infectious diseases of sheep and goats.

# **B-Intellectual skills**

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

b1- analyze the field problems to reach a preliminary diagnosis.

b2- suggest the suitable solutions during outbreaks and interpret the available data.

b3- use the basic information for analysis of epidemics of infectious diseases of sheep and goats and enable the students how to interpret the available data to achieve diagnosis.

b4 -Enhance the ability to differentiate between infectious diseases of sheep and goats.

# **C-Professional and practical skills**

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

c1- Perform the different methods and techniques of clinical examination.

c2- Perform the different sampling methods.

c3- Acquire the experience of planning of a control program.

c4- Plan and apply the different methods of control programs.

c5- Use epidemiological information of the early warning system for early diagnosis of infectious diseases.

# **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- Enhance the experience of taking history in infected farms and Increase the ability of organizing control programs.

d4- Collect the data of diseased animals in an informative and suitable manner.





## 4-Topics and contents

Course	Торіс	No. of	Lectu	Practi
		hours	res	cal
	(Infection and infectious	24	12	12
Ind	diseases Epidemiologic Triad,			
b a	The chain of infection,			
Jee	transboundary diseases).			
fsł	Enteritis and pneumonia	20	10	10
S S	Problem of abortion.	20	10	10
ase oat	Exotic diseases.	20	10	10
ũ ũ	Infectious diseases causing	20	10	10
s d	skin affections			
iou	Infectious diseases causing	20	10	10
ecti				
Inf	20	10	10	
r 1				
	Total	144	72	72

#### 5-Teaching and learning methods

5.1- Lectures and oral presentations

**5.2-** Clinical sections.

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

6-Student assessment

**6.1.** Assessments methods:

Method	Matrix alignment of the measured ILOs/ Assessments methods				
	K&U	I.S	P&P.S	G.S	
Final Exam	a1-a2-a3-a4	b1-b2-			
		b3-b4			
Practical Exam		b1	c4	d1	
Oral Exam	a1- a2- a3- a4	b1- b2- b3-b4-			





#### 6.2. Assessment schedules/semester:

Method	Week(s)
Writing exam	During December
Practical exam	During December
Oral exam	During December

#### 6.3. Weight of assessments:

Assessment	Weight of assessment
Writing exam	50%
Practical exam	25%
Oral exam	25%
Total	100%

#### 7- List of references

#### 7.1. Notes and books

- Infectious diseases of domestic animals (2004/1588) by H.I.Hosein  $(2018) 4^{\text{th}} \text{ Ed.}$ 

#### 7.2. 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
Diseases of sheep 2<sup>nd</sup> Ed. 1982

# 7.3. Recommended texts

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

# 7.4. Journals, Websites .....etc

#### **Journals:**

Journal of Veterinary Science **Research in Veterinary Science** Journal of Veterinary Diagnostic Investigation

#### Websites:

1-www.google.com 2-www.OIE 3-www.FAO 4-www.Canine web sites





# **Course Coordinators**

# Head of Department

Dr. Hosein Abd Al Aal





Tonio	Week	Week Intended learning outcom (ILOs)			f course
Горіс		K&U (a)	I.S (b)	P.P.S (c)	G.T.S (d)
(Infection and infectious diseases Epidemiologic Triad, The chain of infection, transboundry diseases).	1-6	a1,a2			
Enteritis and pneumonia	7-11	a1- a2- a3- a4	b1-b2- b3-b4		d1- d2 d3
Problem of abortion.	12-16	a1- a2- a3- a4	b1-b2- b3-b4		
Exotic diseases.	17-21	a1- a2- a3	b1-b2- b3-b4	c2, c4	d3, d4
Infectious diseases causing skin affections	22-26	a1- a2- a3- a4	b3-b4	c2	
Infectious diseases causing nervous manifestation.	27-31	a1- a2	b1-b2- b3		
Parasitic diseases of sheep and goats	32-36	a1- a2	b1-b2- b3	c2, c4	





**1-Basic information** 

<b>Course Code:</b>	<i>PhD</i> -142
<b>Course title:</b>	Infectious diseases of camels
Program title:	PhD
<b>Contact hours</b> /	4 hours per week (2 theoretical and 2 practical)
week	
<b>Approval Date</b>	

#### **2-Professional information**

Overall aims of course: **This course aims to:** 

Recognize all theories, principles and basics of area of learning of infectious diseases of camels as well as other related sciences, employ the acquired knowledge of infectious diseases of camels together with other related topics and master different professional skills and techniques in diagnosis, prevention and control of infectious diseases of camel. Also, to support the basic knowledge about etiology, epizootiology, clinical sings, and diagnosis and control measures of infectious diseases of infectious diseases of camels, demonstrate an understanding of basic control management procedures and protocols including isolation, quarantine and disinfection and provide opportunities to understand the molecular and cellular mechanisms of disease process.

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

#### A-Knowledge and understanding:

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

a1- Describe advanced research techniques used in the field of infectious diseases.

a2- Identify the basic knowledge about etiological agents and pathogenesis of different infectious diseases of camel.

a3- list the major field problems concerned with infectious



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# **Course specification**

diseases of camel.

a4- Mention the basic knowledge about the treatment and control measures of different infectious diseases of camels.

a5- Identify the important aspects regarding the diagnosis of different infectious diseases of camels.

# **B-** Intellectual skills

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

b1- analyze the field problems to reach a preliminary diagnosis.

b2- suggest the suitable solutions during outbreaks and interpret the available data.

b3- use the basic information for analysis of epidemics of camels and to enable the students how to interpret the available data to achieve diagnosis.

b4 -Enhance the ability to differentiate between infectious diseases of camels.

# C-Professional and practical skills

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

c1- Perform the different methods and techniques of clinical examination.

c2- Perform the different sampling methods.

c3- Acquire the experience of planning of a control program.

c4- Plan and apply the different methods of control programs.

c5- Use epidemiological information of the early warning system for early diagnosis of infectious diseases of camels.

# **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- Enhance the experience of taking history in infected farms and increase the ability of organizing control programs.

d4- Collect the data of diseased animals in an informative and suitable manner.





# **4-Topics and contents**

Course	Торіс	Hours	Lectu res	Practi cal
s of	Epidemiology of camel diseases	24	12	12
seases	Problem of enteritis and pneumonia	24	12	12
s di me	Skin affections.	24	12	12
ous ca	Bacterial disorders.	24	12	12
ecti	Viral diseases	24	12	12
Infe	Blood parasites and internal	24	12	12
	parasites of camels			
	Total	144	72	72

#### 5-Teaching and learning methods

5.1- Lectures and oral presentations

**5.2-** Clinical sections.

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

6-Student assessment

#### **6.1.** Assessments methods:

Method	Matrix alignment of the measured ILOs/ Assessments methods			
	K&U	I.S	P&P.S	G.S
Final Exam	a1- a2- a3-a4	b1-b2-		
		b3-b4		
Practical Exam		b1	c4	d1
Oral Exam	a1-a2-a3-a4	b1-b2-		
		b3-b4-		

# 6.2. Assessment schedules/semester:

Method	Week(s)
Writing exam	During December
Practical exam	During December
Oral exam	During December





#### 6.3. Weight of assessments:

Assessment	Weight of assessment
Writing exam	50%
Practical exam	25%
Oral exam	25%
Total	100%

# 7- List of references

## 7.1. Notes and books

- Infectious diseases of domestic animals (2004/1588) by H.I.Hosein (2018)  $4^{\text{th}}$  Ed.

#### 7.2. 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

- Diseases of camels, Hagans 2<sup>nd</sup> Ed. 1982

# 7.3. Recommended texts

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

# 7.4. Journals, Websites .....etc Journals:

Journal of Veterinary Science Research in Veterinary Science Preventive Veterinary Medicine The veterinary journal Journal of Veterinary Diagnostic Investigation

#### Websites:

1-www.google.com 2-www.OIE 3-www.FAO 4-www.Canine web sites **Course Coordinators** 

**Head of Department** 

Dr. Hosein Abd Al Aal





# **1-Basic information**

<b>Course Code:</b>	<i>PhD</i> -143
<b>Course title:</b>	Infectious diseases of equine
<b>Program title:</b>	PhD
Contact hours/	4 hours per week (2 theoretical and 2 practical)
week	
Approval Date	

#### **2-Professional information**

**Overall aims of course:** 

# This course aims to:

Recognize all theories, principles and basics of area of learning of infectious diseases equine as well as other related sciences, employ the acquired knowledge of infectious diseases of equine together with other related topics and master different professional skills and techniques in diagnosis, prevention and control of infectious diseases of equine. Also, to support the basic knowledge about etiology, epizootiology, clinical sings, and diagnosis and control measures of infectious diseases of equine, demonstrate an understanding of basic control management procedures and protocols including isolation, quarantine and disinfection and provide opportunities to understand the molecular and cellular mechanisms of disease process.

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

#### A-Knowledge and understanding:

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

a1- Describe advanced research techniques used in the field of infectious diseases.

a2- Identify the basic knowledge about etiological agents and pathogenesis of different infectious diseases of equine.

a3- list the major field problems concerned with infectious diseases of equine.



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# **Course specification**

a4- Mention the basic knowledge about the treatment and control measures of different infectious diseases of equine.

a5- Identify the important aspects regarding the diagnosis of different infectious diseases of equine.

# **B-Intellectual skills**

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

b1- analyze the field problems to reach a preliminary diagnosis.

b2- suggest the suitable solutions during outbreaks and interpret the available data.

b3- use the basic information for analysis of epidemics of equine and to enable the students how to interpret the available data to achieve diagnosis.

b4 -Enhance the ability to differentiate between infectious diseases of

equine.

# **C-Professional and practical skills**

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

c1- Perform the different methods and techniques of clinical examination.

c2- Perform the different sampling methods.

c3- Acquire the experience of planning of a control program.

c4- Plan and apply the different methods of control programs.

c5- Use epidemiological information of the early warning system for early diagnosis of infectious diseases of equine.

# **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- Enhance the experience of taking history in infected farms and Increase the ability of organizing control programs.

d4- Collect the data of diseased animals in an informative and suitable manner.





Course	Торіс	No. of	Lectu	Practi
		hours	res	cal
	Introduction of infectious	24	12	12
	diseases			
ne	of equine			
inp	Infectious diseases of newly	20	10	10
fe	born foals			
O Si	Infectious diseases causing	20	10	10
ase	abortion.			
ise	Infectious diseases causing	20	10	10
s d	digestive disorders.			
iou	Infectious diseases causing	20	10	10
ect	respiratory manifestation.			
Inf	Infectious diseases causing	20	10	10
	nervous manifestation.			
	Parasitic diseases of equine		10	10
	Total	144	72	72

#### 5-Teaching and learning methods

**5.1-** Lectures and oral presentations

**5.2-** Clinical sections.

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

6-Student assessment

**6.1.** Assessments methods:

Method	Matrix alignment of the measured ILOs/ Assessments methods			
	K&U	I.S	P&P.S	G.S
Final Exam	a1-a2-a3-a4	b1-b2-		
		b3-b4		
Practical Exam		b1	c4	d1
Oral Exam	a1- a2- a3- a4	b1-b2-		
		b3-b4-		

# **6.2.** Assessment schedules/semester:





Method	Week(s)
Writing exam	During December
Practical exam	During December
Oral exam	During December

# 6.3. Weight of assessments:

Assessment	Weight of assessment
Writing exam	50%
Practical exam	25%
Oral exam	25%
Total	100%

# 7- List of references

#### 7.1. Notes and books

- Infectious diseases of domestic animals (2004/1588) by H.I.Hosein  $(2018) 4^{\text{th}} \text{ Ed.}$ 

# 7.2. 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

- Equine diseases 1984

- A color atlas of equine diseases 1985

# 7.3. Recommended texts

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

# 7.4. Journals, Websites ......etc

#### **Journals:**

Journal of Veterinary Science **Research in Veterinary Science** Preventive Veterinary Medicine The veterinary journal Journal of Veterinary Diagnostic Investigation

# Websites:

1-www.google.com 2-www.OIE



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# **Course specification**

#### 3-www.FAO 4-www.Canine web sites

**Course Coordinators** 

#### Head of Department

Dr. Hosein Abd Al Aal





	<b>1-Basic Information</b>
<b>Course Code:</b>	<i>PhD</i> -144
<b>Course title:</b>	Infectious diseases of pets
Program title:	PhD
<b>Contact hours</b> /	4 hours per week (2 theoretical and 2 practical)
week	
Approval Date	

#### 2-Professional information

**Overall aims of course:** 

#### This course aims to:

Recognize all theories, principles and basics of area of learning of infectious diseases of pets as well as other related sciences, employ the acquired knowledge of infectious diseases of pets together with other related topics and master different professional skills and techniques in diagnosis, prevention and control of infectious diseases of pets. Also, to support the basic knowledge about etiology, epizootiology, clinical sings, and diagnosis and control measures of infectious diseases of pets, demonstrate an understanding of basic control management procedures and protocols including isolation, quarantine and disinfection and provide opportunities to understand the molecular and cellular mechanisms of disease process.

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

#### A-Knowledge and understanding:

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

a1- Describe advanced research techniques used in the field of infectious diseases

a2- Identify the basic knowledge about etiological agents and pathogenesis of different diseases of pet animals.

a3- list the major field problems concerned with infectious diseases of pet animals.

a4- Mention the basic knowledge about the treatment and control measures of different diseases of pet animals.



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# **Course specification**

a5- Identify the important aspects regarding the diagnosis of different diseases of pet animals.

# **B-** Intellectual skills

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

b1- analyze the disease problems to reach a preliminary diagnosis.

b2- suggest the suitable solutions during outbreaks and interpret the available data.

b3- use the basic information for analysis of epidemics of pet animals and interpret the available data to achieve diagnosis.

b4 -enhance the ability to differentiate between diseases of pet animals.

# **C-Professional and practical skills**

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

c1- perform the different methods and techniques of clinical examination.

c2- perform the different sampling methods.

c3- acquire the experience of planning of a control program.

c4- plan and apply the different methods of 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- enhance the experience of taking history in infected farms and increase the ability of organizing control programs.

d4- collect the data of diseased animals in an informative and suitable manner.

4-1 opics and contents				
Course	Торіс	No. of	Lectu	Practi
	*	hours	res	cal





s of	Epidemiology of infectious diseases of pets.	24	12	12
ase	Diseases of neonates.	24	12	12
ise: S	Bacterial diseases of pets	24	12	12
s d pet	Viral diseases of pets.	24	12	12
iou	Parasitic diseases of pet	24	12	12
ect	animals			
Inf	Program of vaccination	24	12	12
	Total	144	72	72

**5-Teaching and learning methods** 

# 5.1- Lectures and oral presentations

5.2- Clinical sections.

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

# 6-Student assessment

# 6.1. Assessments methods:

Method	Matrix alignment of the measured ILOs/ Assessments methods			
	K&U	I.S	P&P.S	G.S
Final Exam	a1- a2- a3-a4	b1-b2-		
		b3-b4		
Practical Exam		b1	c4	d1
Oral Exam	a1-a2-a3-a4	b1-b2-		
		b3-b4-		

#### 6.2. Assessment schedules/semester:

Method	Week(s)
Writing exam	45 <sup>th</sup>
Practical exam	45 <sup>th</sup>
Oral exam	45 <sup>th</sup>

# 6.3. Weight of assessments:

Assessment	Weight of assessment
Writing exam	50%





Practical exam	25%
Oral exam	25%
Total	100%

# 7- List of references

#### 71. Notes and books

- Infectious diseases of domestic animals (2004/1588) by H.I.Hosein (2018)  $4^{\text{th}}$  Ed.

#### **7.2.** Essential books:

- Textbook of Veterinary Internal Medicine: Diseases of the Cat and Dog. Stephen J. Ettinger 1905

- Veterinary medicine 7<sup>th</sup> ed (A text book of the diseases of cattle, sheep, pigs, goats and horses) 1983.

- A color atlas of small animal dermatology 1985

#### 7.3. Recommended texts

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

# 7.4. Journals, Websites .....etc Journals:

Journal of Exotic Pet Medicine - Elsevier Journal of Exotic Pet Medicine Journal of Pet Animal Nutrition - J-Stage Journal of Veterinary Science Journal of Veterinary Diagnostic Investigation

# Websites:

1-www.google.com 2-www.OIE 3-www.FAO 4-www.Canine web sites

# **Course Coordinators**

Head of Department Dr. Hosein Abd Al Aal





Tonia	Week	Intended learning outcomes of course (ILOs)			
Горіс		K&U (a)	I.S (b)	P.P.S (c)	G.T.S (d)
Epidemiology of infectious diseases of pets.	1-6	a1,a2			
Diseases of neonates.	7-11	a1-a2-a3-	b1-b2-		d1- d2
		a4	b3-b4		d3
Bacterial diseases of pets	12-16	a1- a2- a3-	b1-b2-		
		a4	b3-b4		
viral diseases of pets	17-21	a1- a2- a3	b1-b2-	c2, c4	d3, d4
			b3-b4		
Parasitic diseases of pet animals	22-26	a1- a2- a3-	b3-b4	c2	
		a4			
Program of vaccination	27-36	a1- a2	b1-b2-		
			b3		





# **1-Basic information**

<b>Course Code:</b>	<i>PhD</i> -145
<b>Course title:</b>	Infectious diseases of laboratory animals
<b>Program title:</b>	PhD
<b>Contact hours</b> /	3 hours per week (1 theoretical and 2 practical)
week	
<b>Approval Date</b>	

#### **2-Professional information**

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

#### This course aims to:

Recognize all theories, principles and basics of area of learning of laboratory animal's infectious diseases as well as other related sciences, employ the acquired knowledge of laboratory animal's infectious diseases together with other related topics and master different professional skills and techniques in diagnosis, prevention and control of laboratory animal's infectious diseases. Also, to support the basic knowledge about etiology, epizootiology, clinical sings, and diagnosis and control measures of laboratory animal's infectious diseases, demonstrate an understanding of basic control management procedures and protocols including isolation, quarantine and disinfection and provide opportunities to understand the molecular and cellular mechanisms of disease process.

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

# A-Knowledge and understanding:

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

a2- Identify the basic knowledge about etiological agents and pathogenesis of different infectious diseases of laboratory animals.

a1- Describe advanced research techniques used in the field of infectious diseases.



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# **Course specification**

a3- list the major problems concerned with infectious diseases of laboratory animals.

a4- Mention the basic knowledge about the treatment and control measures of different infectious diseases of laboratory animals.

a5- Identify the important aspects regarding the diagnosis of different infectious diseases of laboratory animals.

# **B-** Intellectual skills

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

b1- analyze the field problems to reach a preliminary diagnosis.

b2- suggest the suitable solutions during outbreaks and interpret the available data.

b3- use the basic information for analysis of epidemics of laboratory animals and to enable the students how to interpret the available data to achieve diagnosis.

b4 -Enhance the ability to differentiate between infectious diseases of laboratory animals.

# C-Professional and practical skills

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

c1- Perform the different methods and techniques of clinical examination.

c2- Perform the different sampling methods.

c3- Acquire the experience of planning of a control program.

c4- Plan and apply the different methods of 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- Enhance the experience of taking history in infected farms and Increase the ability of organizing control programs.

d4- Collect the Data of diseased animals in an informative and suitable manner.





### 4-Topics and contents

Course	Торіс	No. of hours	Lectu res	Practi cal
es of nals	Epidemiology of infectious diseases of laboratory animals	18	6	12
diseas y anim	Management of laboratory animals.	18	6	12
us o	Experimental infections	18	6	12
tio	Bacterial disorders.	18	6	12
fec abo	Viral diseases.	18	6	12
In 1	Parasitic diseases	18	6	12
	Total	108	36	72

# 5-Teaching and learning methods

**5.1-** Lectures and oral presentations

5.2- Clinical sections.

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

6-Student assessment

6.1. Assessments methods:

Method	Matrix alignment of the measured ILOs/ Assessments methods			LOs/
	K&U	I.S	P&P.S	G.S
Final Exam	a1- a2- a3-a4	b1-b2-		
		b3-b4		
Practical Exam		b1	c4	d1
Oral Exam	a1-a2-a3-a4	b1-b2-		
		b3-b4-		

#### **6.2.** Assessment schedules/semester:

Method	Week(s)
Writing exam	During December
Practical exam	During December
Oral exam	During December





### **6.3.** Weight of assessments:

Assessment	Weight of assessment
Writing exam	50%
Practical exam	25%
Oral exam	25%
Total	100%

#### 7- List of references

#### 7.1. Notes and books

- Infectious diseases of domestic animals (2004/1588) by H.I.Hosein (2018)  $4^{\text{th}}$  Ed.

# **7.2.** Essential books:

- Veterinary medicine 7<sup>th</sup> ed (A text book of the diseases of cattle, sheep, pigs, goats and horses) 1983.

- Laboratory animal diseases 3<sup>th</sup> Ed. 1984

#### 7.3. Recommended texts

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

# 7.4. Journals, Websites .....etc <u>Journals:</u>

Journal of Veterinary Science Research in Veterinary Science Journal of Veterinary Diagnostic Investigation

#### Websites:

1-www.google.com 2-www.OIE 3-www.FAO 4-www.Canine web sites

#### **Course Coordinators**

# **Head of Department**

Dr. Hosein Abd Al Aal





Tonia	Week Intended le			earning outcomes of course (ILOs)		
горіс		K&U (a)	I.S (b)	P.P.S (c)	G.T.S (d)	
Epidemiology of infectious diseases of laboratory animals	1-6	a1,a2				
Management of laboratory animals.	7-11	a1- a2- a3- a4	b1-b2- b3-b4		d1- d2 d3	
Experimental infections	12-16	a1- a2- a3- a4	b1-b2- b3-b4			
Bacterial diseases.	17-21	a1- a2- a3	b1-b2- b3-b4	c2, c4	d3, d4	
Viral diseases.	22-26	a1- a2- a3- a4	b3-b4	c2		
Parasitic diseases	27-36	a1- a2	b1-b2- b3			





**1-Basic information** 

<b>Course Code:</b>	<i>PhD</i> -146
<b>Course title:</b>	Infectious diseases of new born calves and udder
<b>Program title:</b>	PhD
<b>Contact hours</b> /	4 hours per week (2 theoretical and 2 practical)
week	
<b>Approval Date</b>	

#### **2-Professional information**

#### Overall aims of course: This course aims to:

Recognize all theories, principles and basics of area of learning of infectious diseases of new born calves and udder as well as other related sciences, employ the acquired knowledge of infectious diseases of new born calves and udder together with other related topics and master different professional skills and techniques in diagnosis, prevention and control of infectious diseases of new born calves and udder. Also, to support the basic knowledge about etiology, epizootiology, clinical sings, and diagnosis and control measures of infectious diseases of new born calves and udder. understanding of basic control management demonstrate an and protocols including isolation, quarantine and procedures disinfection and provide opportunities to understand the molecular and cellular mechanisms of disease process.

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

# A-Knowledge and understanding:

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

a1- Describe the advanced research techniques used in the field of infectious diseases.

a2- Identify the basic knowledge about etiological agents and



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# **Course specification**

pathogenesis of different infectious diseases of calves and udder.

a3- list the major field problems concerned with infectious diseases of calves and udder.

a4- Mention the basic knowledge about the treatment and control measures of different infectious diseases of calves and udder.

a5- Identify the important aspects regarding the diagnosis of different infectious diseases of calves and udder.

# **B-** Intellectual skills

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

b1- analyze the field problems to reach a preliminary diagnosis.

b2- suggest the suitable solutions during outbreaks and interpret the available data.

b3- use the basic information for analysis of epidemics of calves and to enable the students how to interpret the available data to achieve diagnosis.

b4 -Enhance the ability to differentiate between infectious diseases of calves and udder.

# C-Professional and practical skills

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

c1- Perform the different methods and techniques of clinical examination.

c2- Perform the different sampling methods.

c3- Acquire the experience of planning of a control program.

c4- Plan and apply the different methods of control programs.

c5- Use epidemiological information of the early warning system for early diagnosis of infectious diseases of calves and udder.

# **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- Enhance the experience of taking history in infected farms and increase the ability of organizing control programs.

d4- Collect the data of diseased animals in an informative and suitable





manner.

# **4-Topics and contents**

Course	Торіс	No. of	Lectu	Practi
		hours	res	cal
	Immunological aspect of	12	20	12
	infectious diseases of newly			
pc	born animals			
ew	Management factor of	24	12	12
of n lde	infectious diseases of newly			
es c l uc	born animals			
and	Infectious diseases causing	24	12	12
lise es	diarrhea			
us d alv	Infectious diseases causing	24	12	12
ion	respiratory manifestation.			
ect	Clinical and subclinical	24	12	12
Inf	mastitis			
	Udder affections	24	12	12
	Total	144	72	72

# 5-Teaching and learning methods

**5.1-** Lectures and oral presentations

**5.2-** Clinical sections.

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

6-Student assessment

# 6.1. Assessments methods:

Method	Matrix alignment of the measured ILOs/ Assessments methods				Matrix alignment of the measured ILOs/ Assessments methods		
	K&U I.S P&P.S G.S						
Final Exam	a1- a2- a3-a4	b1-b2-					
		b3-b4					
Practical Exam		b1	c4	d1			
Oral Exam	a1-a2-a3-a4	b1-b2-					
		b3-b4-					





#### 6.2. Assessment schedules/semester:

Method	Week(s)
Writing exam	During December
Practical exam	During December
Oral exam	During December

#### **6.3.** Weight of assessments:

Assessment	Weight of assessment
Writing exam	50%
Practical exam	25%
Oral exam	25%
Total	100%

#### 7- List of references

# 7.1. Notes and books

- Infectious diseases of domestic animals (2004/1588) by H.I.Hosein (2018)  $4^{\text{th}}$  Ed.

#### 7.2. Essential books:

- Veterinary medicine 7<sup>th</sup> ed (A text book of the diseases of cattle, sheep, pigs, goats and horses) 1983.

- Bovine Medicine 3<sup>th</sup> Ed. 1984
- Cattle diseases 1984
- Diseases of sheep 2<sup>nd</sup> Ed. 1982
- A color atlas of small animal dermatology 1985

# 7.3. Recommended texts

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

# 7.4. Journals, Websites .....etc <u>Journals:</u>

Journal of Veterinary Science Research in Veterinary Science Preventive Veterinary Medicine The veterinary journal Journal of Veterinary Diagnostic Investigation



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# **Course specification**

Websites: 1-www.google.com 2-www.OIE 3-www.FAO 4-www.Canine web sites

# **Course Coordinators**

# Head of Department

Dr. Hosein Abd Al Aal





Tonia	Week	Intended learning outcomes of course (ILOs)			
горіс		K&U (a)	I.S (b)	P.P.S (c)	G.T.S (d)
Introduction of infectious diseases of newly born	1-6				
animals Immunological aspect of infectious diseases of		a1,a2			
newly born animals					
Management factor of infectious diseases of newly	7-11	a1- a2- a3-	b1-b2-		d1- d2
born animals		a4	b3-b4		d3
Infectious diseases causing diarrhea	12-16	a1- a2- a3-	b1-b2-		
		a4	b3-b4		
Infectious diseases causing respiratory manifestation.	17-21	a1- a2- a3	b1-b2-	c2, c4	d3, d4
			b3-b4		
Clinical and subclinical mastitis	22-26	a1- a2- a3-	b3-b4	c2	
		a4			
udder affections	27-36	a1- a2	b1-b2-		
			b3		





I-Dasic mormation				
<b>Course Code:</b>	<i>PhD</i> -147			
<b>Course title:</b>	Infectious diseases of wildlife animals			
Program title:	PhD			
Contact hours/	3 hours per week (1 theoretical and 2 practical)			
week				
Approval Date				

#### 2-Professional information

**Overall aims of course:** 

#### This course aims to:

Recognize all theories, principles and basics of area of learning of infectious diseases of wildlife animals as well as other related sciences, employ the acquired knowledge of infectious diseases of wildlife animals together with other related topics and master different professional skills and techniques in diagnosis, prevention and control of infectious diseases of wildlife animals. Also, to support the basic knowledge about etiology, epizootiology, clinical sings, and diagnosis and control measures of infectious diseases of wildlife animals, demonstrate an understanding of basic control management procedures and protocols including isolation, quarantine and disinfection and provide opportunities to understand the molecular and cellular mechanisms of disease process.

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

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

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

a1- Describe advanced research techniques used in the field of infectious diseases.

a2- Identify the basic knowledge about etiological agents and pathogenesis of different infectious diseases of wildlife animals.

a3- list the major field problems concerned with infectious diseases of farm animals.



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# **Course specification**

a4- Mention the basic knowledge about the treatment and control measures of different infectious and non-infectious diseases of wildlife animals.

a5- Identify the important aspects regarding the diagnosis of different infectious diseases of wildlife animals.

# **B-** Intellectual skills

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

b1- analyze the field problems to reach a preliminary diagnosis.

b2- suggest the suitable solutions during outbreaks and interpret the available data.

b3- use the basic information for analysis of epidemics of wildlife animals and to enable the students how to interpret the available data to achieve diagnosis.

b4 -Enhance the ability to differentiate between infectious diseases of wildlife animals.

# **C-Professional and practical skills**

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

c1- Perform the different methods and techniques of clinical examination.

c2- Perform the different sampling methods.

c3- Acquire the experience of planning of a control program.

c4- Plan and apply the different methods of 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- Enhance the experience of taking history in infected farms and increase the ability of organizing control programs.

d4- Collect the data of diseased animals in an informative and suitable manner.





Course	Торіс	No. of hours	Lectu res	Practi cal
	Ecology of wild life	18	6	12
of	Different ecosystems	18	6	12
esals	Management of wild life	18	6	12
eas ima	diseases.			
dis an	Drug administration in wild	18	6	12
us ife				
Infectious diseases of wild life		18	6	12
wi	Control of infectious diseases	18	6	12
In	of wild life			
	Total	108	36	72

# 5-Teaching and learning methods

# **5.1-** Lectures and oral presentations

**5.2-** Clinical sections.

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

# 6-Student assessment

6.1. Assessments method	ls:
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Method	Matrix alignment of the measured ILOs/ Assessments methods				
	K&U I.S P&P.S G.S				
Final Exam	a1-a2-a3-a4	b1-b2-			
		b3-b4			
Practical Exam		b1	c4	d1	
Oral Exam	a1-a2-a3-a4	b1-b2-			
		b3-b4-			

# 6.2. Assessment schedules/semester:

Method	Week(s)		
Writing exam	During December		
Practical exam	During December		
Oral exam	During December		

# **6.3.** Weight of assessments:





Assessment	Weight of assessment
Writing exam	50%
Practical exam	25%
Oral exam	25%
Total	100%

# 7- List of references

#### 7.1. Notes and books

- Infectious diseases of domestic animals (2004/1588) by H.I.Hosein (2018)  $4^{\text{th}}$  Ed.

# 7.2. Essential books:

- Essentials of Disease in Wild Animals, Gary A. Wobeser

- Disease in Wild Animals: Investigation and Management, Gary A. Wobeser (Author)

- Veterinary medicine 7<sup>th</sup> ed (A text book of the diseases of cattle, sheep, pigs, goats and horses) 1983.

- A color atlas of small animal dermatology 1985

# 7.3. Recommended texts

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

# 7.4. Journals, Websites .....etc <u>Journals:</u>

Journal of Wildlife Diseases European Journal of Wildlife Research - Springer Journal of Zoo and Wildlife Medicine International Journal for Parasitology: Parasites and Wildlife Journal of Veterinary Diagnostic Investigation

# Websites:

1-www.google.com 2-www.OIE 3-www.FAO 4-www.Canine web sites

# **Course Coordinators**

Head of Department Dr. Hosein Abd Al Aal





Tonio	Week	Intended learning outcomes of course (ILOs)			
горіс		K&U (a)	I.S (b)	P.P.S (c)	G.T.S (d)
Ecology of wild life	1-6	a1,a2			
Different ecosystems	7-11	a1- a2- a3- a4	b1-b2- b3-b4		d1- d2 d3
Management of wild life diseases	12-16	a1- a2- a3- a4	b1-b2- b3-b4		
Drug adminnestration in wild animals	17-21	a1- a2- a3	b1-b2- b3-b4	c2, c4	d3, d4
Infectious diseases of wild life	22-26	a1- a2- a3- a4	b3-b4	c2	
Control of diseases of wild life	27-36	a1- a2	b1-b2- b3		