

University of Sadat City Faculty of veterinary medicine Diploma Course Specification (2014-2015)



Infectious Diseases

Diploma COURSE SPECIFICATION

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A. BASIC INFORMATION

University:	Sadat City
Facult <mark>y:</mark>	Veterinary Medicine
Progr <mark>am on</mark> which the course is given:	Diploma of Farm Animal Diseases
Department offering the Course:	Medicine and Infectious Diseases
Course code:	921
Course title:	Infectious Diseases
Lecture (hr/week):	2
Practical (hr/week):	2
Course coordinator:	Prof. Dr. Ahmed Zaghawa

B. PROFESSIONAL INFORMATION

) Overall aims of course

The aim of this course is to provide the diploma students with up- to- date basic information and knowledge about the common infectious diseases affecting different animal's species especially that conceding with the causes. They also understand the epidemiological patterns; pathogenesis, clinco- pathological features. Moreover, the students should have the ability of diagnosis, differential diagnosis, outline of treatment, control and prevention of these diseases in-betweens individual animal and farm level..

Y) Intended learning outcomes of course (ILOs)

a) **KNOWLEDGE AND UNDERSTANDING**

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

- **a.1.** List the most common infectious disease affecting farm animals.
- **a.2.** Identify the frequency and distribution of farm animal infectious disease and factors determine such distribution.
- **a.3.** Clarify the impact of the farm animal infectious diseases on the animal public health and community.
- **a.4.** Recognize the pathogenesis and clinico-pathological and clinical character of infectious disease in farm animals.
- **a.5.** Describe the epidemiology of the farm animal infectious diseases.

b) INTELLECTUAL SKILLS

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

- **b.1.** Investigate appropriate causes, epidemiological pattern, clinico-pathological features of farm animal infectious diseases.
- **b.2.** Discuss the primary and secondary evidence and arguments of the frequency and factors detriment of the distribution of farm animal infectious disease.
- **b.3.** Analyze the quantitative information of farm animal infectious diseases in graphs, figures, tables and equations and appropriate statistical tests.
- **b.4.** Plan a research task for diagnosis treatment, control and prevention of infectious disease in farm animals.
- **b.5.** Interpret the interaction between infectious agents including prions, virus, bacteria fungi and parasites and the farm animals.

c) **PROFESSIONAL AND PRACTICAL SKILLS**

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

- **c.1.** Perform clinical assessment for diseased farm animals.
- **c.2.** Solve common clinical situation using appropriate problem solving skills and reverent ethical principle.
- c.3. Determine the principle and limitations of advanced practical techniques.
- **c.4.** Use appropriate basic laboratory equipment safely and efficiently.
- **c.5.** Apply appropriate experiments and sampling programs in the laboratory, bearing in mind technical, logistical safety and ethical limitations.

d) <u>General and transferable skill</u>

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

- d.1. join with team efficiently.
- d.2. Enhance the use of library services and IT tools.
- d.3. Improve computer / keyboard skills including word
- d.4. Create effective presentation.

·) Topics and contents						
T: -	No. of hours					
Горіс	Lectures	Practical	Total			
1- Molecular epidemiology of bacterial and mycotic diseases of cattle and buffaloes.	12	-	12			
 Molecular epidemiology of viral diseases of cattle and buffaloes. 	14	-	14			
3- Molecular epidemiology of parasitic diseases of cattle and buffaloes	8	-	8			
4. Introduction and common term.	-	4	4			
5. Sampling.	-	6	6			
6. Diagnosis of parasitic diseases.	-	8	8			
7. Diagnosis of protozoal diseases.	_	4	4			
8. Diagnosis of mange.	-	4	4			
9. Diagnosis of dermatophyte infections.	-	4	4			
10- Diagnosis of mastitis.	-	8	8			
11- Molecular epidemiology of equine infectious diseases	14	-	14			
12- Molecular epidemiology of pet animal infectious diseases	12	-	12			
13- Molecular epidemiology of sheep and goat infectious diseases	14	-	14			
14- Molecular epidemiology of camel infectious diseases	14	-	14			
15-Diagnosis of viral diseases	-	8	8			
16-Diagnosis of bacterial diseases	-	8	8			
17-Serological diagnosis	-	8	8			
18-Molecular diagnosis	-	8	8			
19-Mallien test	-	12	12			
20-Principles of infectious diseases treatment	-	4	4			
21-Antimicrobials	-	4	4			
22-Anthelmentics drugs	-	4	4			
23-Vaccination of farm and pet animals	-	6	6			
	88	88	176			

£) Teaching and learning methods

4.1. Lectures.

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- 4.2. Practical.
- 4.3. Self-learning activities.

•) Student assessment

a. METHODS:

1- Written examination	For assessment of knowledge, back
	calling and Intellectual skills
2- Practical examination	For assessment of practical and
	professional skill.
3- Oral examination	For assessment of knowledge and
	Intellectual skills
4- Student activities	For assessment of knowledge and general
	and transferable skills

b. MATRIX ALIGNMENT OF THE MEASURED ILOS/ ASSESSMENTS METHODS:

	K.U (a)	I.S (b)	P.P.S (c)	G.S (d)
Written exam	1,2,4,5	1,2,5	-	-
Practical exam		1,5	1-5	-
Oral exam	1,2,3,5	1,2,5		-
Student activities (assay, seminar, etc.)	3	3,4		1-4

c. WEIGHT OF ASSESSMENTS:

Assessment	Allocated Mark	Evidence					
Final written exam	50%	Marked and signed written paper					
Practical exam	20%	Marked and signed practical exam					
		paper					
Oral exam	20%	Signed list of oral exam marks					
Student assignments	10%	Representative samples of					
Student assignments		presented materials					

7) List of references

6.1. Department notes:

Department theoretical books and practical manual.

6.2. Essential books

- Veterinary Medicine, A Textbook of the Diseases of Cattle, Sheep, Pig, Goats and Hours.
 Three course notes (Infectious diseases of cattle, infectious diseases of sheep, goats, dogs, cats and camels and practical note)..
- / Veterinary Epidemiology.
- Clinical Veterinary Microbiology.
- Viral Diseases of Cattle.
- Handbook on Animal Diseases in Tropics.

- Veterinary Diagnostic Virology.
- A field manual of Camel Diseases Infectious Diseases of dog and Cat

6.3. Journals & websites:

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- Journal of infectious diseases. J
 - American Society of Microbiology
- Journal of Veterinary Microbiology Journal of Archives of Virology Vaccines Journal Emerging Infectious Diseases ノノノー

	Course coordinators	Head of department
Name	Prof. Dr. Ahmed Zaghawa	Prof. Dr. Ahmed Zaghawa
Signature		

Matrix alignment of course topics and ILOs

Торіс	N	lo. of hours		ILOs				T&L methods			
	Lectures	Practical	Total	K&U (a)	I.S (b)	P.P.S (c)	G.T.S (d)	Lect. Pract.	Self& active leaning	Audio visual	Case study
Bacterial and mycotic diseases of cattle and buffaloes.	12	-	12	1,2,3 ,4,5	1,2,3 ,4,5	-	-	\checkmark			
Viral diseases of cattle and buffaloes.	14	-	14	1,2,3, 4,5	1,2,3, 4,5	-	-	\checkmark	\checkmark		
3- Parasitic diseases of cattle and buffaloes	8	-	8	1,2,3, 4,5	1,2,3 ,4,5	-	-	\checkmark	\checkmark		
4. Introduction and common term.	-	2	2	1,2,3, 4,5	1,2,3,4,5	-	-	\checkmark	\checkmark		
5. Sampling.	-	2	2	-	-	1,2,3, 4,5	1,2	\checkmark	\checkmark		
6. Diagnosis of parasitic diseases.	-	4	4	-	-	1,2,3, 4,5	1,2	\checkmark	\checkmark		
7. Diagnosis of protozoal diseases.	-	4	4	-	-	1,2,3, 4,5	1,2	\checkmark	\checkmark		
8. Diagnosis of mange.	-	4	4	-	-	1,2,3,4,5	1,2	\checkmark			
9. Diagnosis of dermatophyte infections.	-	4	4	-	-	1,2,3,4,5	1,2		\checkmark		
10- Diagnosis of mastitis.	-	4	4	-	-	1,2,3,4,5	1,2	\checkmark	\checkmark		
11- Equine infectious diseases	14	-	14	1,2,3,4,5	1,2,3,4,5	-	-	\checkmark	\checkmark		
12- Molecular epidemiology of pet animal infectious diseases	12	-	12	1,2,3,4,5	1,2,3,4,5	-	3		\checkmark		

13- Sheep and goat infectious diseases	14	-	14	1,2,3,4,5	1,2,3,4,5	1,2,3,4,5	- 1		\checkmark	
14- Camel infectious diseases	14	-	14	1,2,3,4,5	1,2,3,4,5	1,2,3,4,5	- 1		\checkmark	
15-Diagnosis of viral diseases	-	4	4	-	-	1,2,3,4,5	1,2	\checkmark	\checkmark	
16-Diagnosis of bacterial diseases	-	4	4	-	-	1,2,3,4,5	1,2			
17-Serological diagnosis	-	2	2	-	-	1,2,3,4,5	1,2			
18-Molecular diagnosis	-	4	4	-	-	1,2,3,4,5	1,2,3			
19-Mallien test	-	2	2	-	-	1,2,3,4,5	1,2			
20-Principles of infectious diseases treatment	-	2	2	-	-	1,2,3,4,5	1,2	\checkmark		
21-Antimicrobials	-	2	2	-	-	1,2,3,4,5	1,2,4			
22-Anthelmentics drugs	-	2	2	-	-	1,2,3,4,5	1,2,4			
23-Vaccination of farm and pet animals	-	2	2	-	-	1,2,3,4,5	1,2,4	\checkmark	\checkmark	
Total	176	88	88							