



University of Sadat City
Faculty of Veterinary Medicine
Dept. of Medicine and Infectious Diseases
(2014-2015)



Cattle Infectious Diseases

(730M)

MVSc COURSE SPECIFICATION

A. BASIC INFORMATION

University:	University of Sadat City
Faculty:	Veterinary Medicine
Program on which the course is given:	MVSc in Veterinary Medical Sciences (Infectious Diseases)
Department offering the Course:	Medicine and Infectious Diseases
Course code:	730M
Course title:	Cattle Infectious Diseases
Lecture (hr/week):	1
Practical (hr/week):	2
Course coordinator:	Dr. Mohamed Nayel

B. PROFESSIONAL INFORMATION

1) Overall aims of course

Upon successful completion of the course, the student will be able to Diagnose, treat infectious diseases.

2) Intended learning outcomes of course (ILOs)

a) KNOWLEDGE AND UNDERSTANDING

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

- a.1. Realize the different causes of infectious diseases in cattle.
- a.2. Be aware with clinical picture of cattle infectious diseases.
- a.3. Explain the pathogenesis of Cattle infectious diseases.
- a.4. Recognize different methods of diagnosis, treatment and control of cattle infectious diseases.

b) INTELLECTUAL SKILLS

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

- b.1. Differentiate between different infectious diseases of cattle.
- b.2. Select the most suitable and economic line of treatment.
- b.3. Write and evaluate clinical reports about cattle infectious diseases.
- b.4. Plan a schedule for vaccination against infectious disease.

c) PROFESSIONAL AND PRACTICAL SKILLS

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

- c.1. Perform clinical examination and proper sampling from diseased cattle.
- c.2. Master basic laboratory skills for diagnosis of cattle bacterial, mycotic, parasitic and viral diseases.
- c.3. Apply basic molecular and serological techniques for diagnosis of cattle infectious diseases.
- c.4. Apply prevention and control strategy for cattle infectious diseases

a) GENERAL AND TRANSFERABLE SKILL

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

- d.1. Manage scientific meetings and time.
- d.2. Manage research teams in the field of infectious diseases
- d.3. Involve in self and continuous learning.
- d.4. Communicate effectively.

3) Topics and contents

Topic	No. of hours		
	Lectures	Practical	Total
1- Introduction and common term.	2	-	2
2- Bacterial and mycotic diseases of cattle.	18		18
3- Viral diseases of cattle.	14	-	14
4- Parasitic diseases of cattle.	10	-	10
5. Sampling and primary examination of animals	-	10	10

6. Molecular tests for diagnosis of cattle viral, bacterial and parasitic diseases.	-	20	20
7. Serological diagnosis of cattle infectious diseases.	-	20	20
8. Allergic tests.	-	18	18
9- Treatment and vaccination of cattle infectious diseases	-	20	20
	44	88	132

4) Teaching and learning methods

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

5) 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	a1-4	b1,2		
Practical exam		b1,3,4	c1-4	
Oral exam	a1-3	b1,2,4		
Student activities (assay, seminar, etc.)				1-4

c. WEIGHT OF ASSESSMENTS:

Assessment	Allocated Mark	Evidence
Final written exam	50%	Marked and signed written paper
Practical exam	50%	Marked and signed practical exam paper
Oral exam		Signed list of oral exam marks
Student activities		Assay, presentations, discussions, review

6) List of references

6.1. Essential textbooks

Infectious Diseases of Livestock: J. A. W. Coetzer, R. C. Tustin; 2 edition, Oxford University Press, USA 2005.

6.2. Recommended books

- **Veterinary Medicine: A Textbook of the Diseases of Cattle, Sheep, Pigs, Goats and Horses.** Radostits, Gay, Blood, and Hinchcliff. 10th ed, Saunders, 2007
- **Large Animal Internal Medicine,** 4th edition, B P Smith. Elsevier 2009.
- **Viral Diseases of Cattle:** 2ed edition, Robert F. Kahrs. Wiley-Blackwell; 2001

6.3. Periodicals and Web sites

- Journal of infectious diseases.
- Emerging Infectious Diseases
- IVIS
- PubMed
- Science direct

7) Facilities required for teaching and learning

- 7.1 Data-show.
- 7.2 Large animals for clinical diagnosis.
- 7.3 Network for technology transfer.
- 7.4 Binocular Microscope for parasitic and Microbial identification.
- 7.5 Computer.

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

Matrix alignment of course topics and ILOs

Topic	No. of hours /week		Total hours	Hours for Lect.	Hours for Pract.	ILOs			
	Lect.	Pract.				K.U (a)	I.S (b)	P.P.S (c)	G.T.S (d)
1- Introduction and common term.	1	-	2	2		1	1		1-4
2- Bacterial and mycotic diseases of cattle.	1	-	18	18		1-4	1-4		1-4
3- Viral diseases of cattle.	1	-	14	14		1-4	1-4		1-4
4- Parasitic diseases of cattle	1	-	10	10		1-4	1-4		1-4
5. Sampling and primary examination of animals		2	10		10			1	1-4
6. Molecular tests for diagnosis of cattle viral, bacterial and parasitic diseases.		2	20		20			2,3	1-4
7. Serological diagnosis of cattle infectious diseases.		2	20		20			2,3	1-4
8. Allergic tests.		2	18		18			1,3	1-4
9- Treatment and vaccination of cattle infectious diseases		2	20		20			4	1-4
Total			132	44	88				