Udder and Calf Infectious Diseases (7٣5M)

MVSc COURSE SPECIFICATION

A. BASIC INFORMATION

University:	**Sadat City**
Faculty:	**Veterinary Medicine**
Program on which the course is given:	**Master in Veterinary Medical Sciences (Infectious Diseases)**
Department offering the Course:	**Medicine and Infectious Diseases**
Course code:	**736M**
Course title:	**Udder and Calf Infectious Diseases**
Lecture (hr/week):	**2**
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 udder and calf.
a.2. Be aware with clinical picture of udder and calf infectious diseases.
a.3. Explain the pathogenesis of Udder and calf infectious diseases.
a.4. Recognize different methods of diagnosis, treatment and control of udder and calf 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 udder and calf.
b.2. Select the most suitable and economic line of treatment.
b.3. Write and evaluate clinical reports about udder and calf 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 udder and calf.
c.2. Master basic laboratory skills for diagnosis of udder and calf bacterial, mycotic, parasitic and viral diseases.
c.3. Apply basic molecular and serological techniques for diagnosis of udder and calf infectious diseases.
c.4. Apply prevention and control strategy for udder and calf 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.	**4**	**-**	**4**
2- Bacterial and mycotic diseases of udder and calf.	**36**	**-**	**36**
3- Viral diseases of udder and calf.	**28**	**-**	**28**
4- Parasitic diseases of udder and calf.	**20**	**-**	**20**

5. Sampling and primary examination of animals	-	10	10
6. Molecular tests for diagnosis of udder and calf viral, bacterial and parasitic diseases.	-	20	20
7. Serological diagnosis of udder and calf infectious diseases.	-	20	20
8. Allergic tests.	-	18	18
9- Treatment and vaccination of udder and calf infectious diseases	-	20	20
	88	88	176

4) Teaching and learning methods

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

5) Student assessment

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

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a. 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

b. 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

- ***Mastitis In Dairy Productio: Current Knowledge and Future Solutions:*** H. Hogeveen , Wageningen Academic Publishers ,2005.
- ***Infectious Diseases of Livestock:*** J. A. W. Coetzer Author, R. C. Tustin; 2 edition, Oxford University Press, USA 2005.

Recommended texts

- ***Veterinary Medicine:*** A Textbook of the Diseases of Udder and calf, 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 Udder and calf:*** 2ed edition, Robert F. Kahrs. Wiley-Blackwell; 2001

6.3. Periodicals and Web sites

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

7) Science direct **Facilities required for teaching and learning**

7.1 Data-show.
7.2 Cows and calves 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.	2	-	4	4		1	1		1-4
2- Bacterial and mycotic diseases of udder and calf.	2	-	36	36		1-4	1-4		1-4
3- Viral diseases of udder and calf.	2	-	28	28		1-4	1-4		1-4
4- Parasitic diseases of udder and calf	2	-	20	20		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 udder and calf viral, bacterial and parasitic diseases.		2	20		20			2,3	1-4
7. Serological diagnosis of udder and calf infectious diseases.		2	20		20			2,3	1-4
8. diagnosis of mastitis.		2	18		18			1,3	1-4
9- Treatment and vaccination of udder and calf infectious diseases		2	20		20			4	1-4
Total			176	88	88				