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

Infectious diseases
(Basic course)

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:	**--**
Course title:	**Infectious diseases – Basic course**
Lecture (hr/week):	**3**
Practical (hr/week):	**4**
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 different animal species.
a.2. Be aware with clinical picture of different animal species infectious diseases.
a.3. Explain the pathogenesis of Different animal species infectious diseases.
a.4. Recognize different methods of diagnosis, treatment and control of different animals species 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 different animals species.
b.2. Select the most suitable and economic line of treatment.
b.3. Write and evaluate clinical reports about different animals species 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 different animals species.
c.2. Master basic laboratory skills for diagnosis of different animals species bacterial, mycotic, parasitic and viral diseases.
c.3. Apply basic molecular and serological techniques for diagnosis of different animals species infectious diseases.
c.4. Apply prevention and control strategy for different animals species 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.	**6**		**6**
2- Bacterial and mycotic diseases of different animals species.	**54**		**54**
3- Viral diseases of different animals species.	**42**		**42**
4- Parasitic diseases of different animals species.	**30**		**30**

5. Sampling and primary examination of animals		**10**	**10**
6. Molecular tests for diagnosis of different animals species viral, bacterial and parasitic diseases.		**40**	**40**
7. Serological diagnosis of different animals species infectious diseases.		**40**	**40**
8. Allergic tests.		**36**	**36**
9- Treatment and vaccination of different animals species infectious diseases		**40**	**40**
	132	**176**	**308**

4) Teaching and learning methods

a. Lectures to gain knowledge and understanding skills. The teacher usually uses all the available teaching tools like data show. The lectures usually take the form of open discussion.

b. Writing a review paper about the field of specialization to gain the skills of information collection, self-learning and presentation.

c. Practical and lab sessions to gain practical skills.

5) Student assessment

a. METHODS:

- Written exam to assess knowledge, information and intellectual skills.
- Practical exam to assess professional and practical skills.
- Oral exam to assess knowledge and information and intellectual 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 Different animals species, 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 Different animals species:** 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 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.	3	-	6	6		1	1		1-4
2- Bacterial and mycotic diseases of different animals species.	3	-	54	54		1-4	1-4		1-4
3- Viral diseases of different animals species.	3	-	42	42		1-4	1-4		1-4
4- Parasitic diseases of different animals species	3	-	30	30		1-4	1-4		1-4
5. Sampling and primary examination of animals		4	20		10			1	1-4
6. Molecular tests for diagnosis of different animals species viral, bacterial and parasitic diseases.		4	40		40			2,3	1-4
7. Serological diagnosis of different animals species infectious diseases.		4	40		40			2,3	1-4
8. Allergic tests.		4	36		36			1,3	1-4
9- Treatment and vaccination of different animals species infectious diseases		4	40		40			4	1-4
Total			308	132	176				