Laboratory Animal Infectious Diseases

(735M)

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:	**735M**
Course title:	**Laboratory Animal 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 laboratory animals.
a.2. Be aware with clinical picture of laboratory animals infectious diseases.
a.3. Explain the pathogenesis of Laboratory animals infectious diseases.
a.4. Recognize different methods of diagnosis, treatment and control of laboratory animals 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 laboratory animals.
b.2. Select the most suitable and economic line of treatment.
b.3. Write and evaluate clinical reports about laboratory animals 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 laboratory animals.
c.2. Master basic laboratory skills for diagnosis of laboratory animals bacterial, mycotic, parasitic and viral diseases.
c.3. Apply basic molecular and serological techniques for diagnosis of laboratory animals infectious diseases.
c.4. Apply prevention and control strategy for laboratory animals 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 laboratory animals.	**18**	**-**	**18**
3- Viral diseases of laboratory animals.	**14**	**-**	**14**
4- Parasitic diseases of laboratory animals.	**10**	**-**	**10**

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

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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

- ***Laboratory Animal Medicine:*** 2 edition, Fox, James G.; Anderson, Lynn C.; Loew, Franklin M. & Quimby, Fred W., Elsevier (2002).

Recommended texts

- ***Laboratory Animal Medicine,*** 2 edition, James G. Fox, Lynn C. Anderson, Franklin M. Loew , Fred W. Quimby , James G Fox, Academic Press; 2002
- ***Pathology of Laboratory Rodents and Rabbits,*** 3 edition, Dean H. Percy, Stephen W. Barthold, Wiley-Blackwell; 2007

6.3. Periodicals and Web sites

- Journal of the American Association for Laboratory Animal Science
- IVIS
- PubMed

Science direct

7) Science direct Facilities required for teaching and learning

7.1 Data-show.
7.2 Lab 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 laboratory animals.	1	-	18	18		1-4	1-4		1-4
3- Viral diseases of laboratory animals.	1	-	14	14		1-4	1-4		1-4
4- Parasitic diseases of laboratory animals	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 laboratory animals viral, bacterial and parasitic diseases.		2	20		20			2,3	1-4
7. Serological diagnosis of laboratory animals infectious diseases.		2	20		20			2,3	1-4
8. Allergic tests.		2	18		18			1,3	1-4
9- Treatment and vaccination of laboratory animals infectious diseases		2	20		20			4	1-4
Total			132	44	88				