



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



Sheep and Goat Infectious Diseases (731M)

MVSc COURSE SPECIFICATION

A. BASIC INFORMATION

| | |
|--|---|
| University: | University of 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: | 731M |
| Course title: | Sheep and Goat Infectious Diseases |
| Lecture (hr/week): | 2 |
| Practical (hr/week): | 2 |
| Course coordinator: | Dr. Mohamed A. 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 sheep and goat.
- a.2. Be aware with clinical picture of sheep and goat infectious diseases.
- a.3. Explain the pathogenesis of Sheep and goat infectious diseases.
- a.4. Recognize different methods of diagnosis, treatment and control of sheep and goat 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 sheep and goat.
- b.2. Select the most suitable and economic line of treatment.
- b.3. Write and evaluate clinical reports about sheep and goat 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 sheep and goat.
- c.2. Master basic laboratory skills for diagnosis of sheep and goat bacterial, mycotic, parasitic and viral diseases.
- c.3. Apply basic molecular and serological techniques for diagnosis of sheep and goat infectious diseases.
- c.4. Apply prevention and control strategy for sheep and goat 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 sheep and goat. | 36 | | 36 |
| 3- Viral diseases of sheep and goat. | 28 | - | 28 |
| 4- Parasitic diseases of sheep and goat. | 20 | - | 20 |

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

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 | a2,3 | a2 | | |
| Student activities (assay, seminar, etc.) | | | | d1-4 |

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.

Recommended texts

- *Veterinary Medicine: A Textbook of the Diseases of Sheep and goat, Sheep, Pigs, Goats and Horses*. Radostits, Gay, Blood, and Hinchcliff. 10th ed, Saunders, 2007
- *Sheep and Goat Medicine*: 2nd edition, D. G. Pugh, N. Baird, Saunders; 2011

6.3. Periodicals and Web sites

-) Journal of infectious diseases.
-) Emerging Infectious Diseases
-) Sheep & Goat Research Journal
-) IVIS
-) PubMed
-) Science direct

7) Facilities required for teaching and learning

- 7.1 Data-show.
- 7.2 Sheep and goat for clinical diagnosis.
- 7.3 Network for technology transfer.
- 7.4 Binocular microscope for parasitic and microbial investigations.
- 7.5 Computer.

| | Course coordinators | Head of department |
|------------------|-----------------------------|-------------------------|
| Name | Dr. Mohamed A. 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) |
| Introduction and common term. | 2 | - | 4 | 4 | | 1 | 1 | | 1-4 |
| Bacterial and mycotic diseases of sheep and goat. | 2 | - | 36 | 36 | | 1-4 | 1-4 | | 1-4 |
| Viral diseases of sheep and goat. | 2 | - | 28 | 28 | | 1-4 | 1-4 | | 1-4 |
| Parasitic diseases of sheep and goat. | 2 | - | 20 | 20 | | 1-4 | 1-4 | | 1-4 |
| Sampling and primary examination of animals | | 2 | 10 | | 10 | | | 1 | 1-4 |
| Molecular tests for diagnosis of sheep and goat viral, bacterial and parasitic diseases. | | 2 | 20 | | 20 | | | 2,3 | 1-4 |
| Serological diagnosis of sheep and goat infectious diseases. | | 2 | 20 | | 20 | | | 2,3 | 1-4 |
| Allergic tests. | | 2 | 18 | | 18 | | | 1,3 | 1-4 |
| Treatment and vaccination of sheep and goat infectious diseases | | 2 | 20 | | 20 | | | 4 | 1-4 |
| Total | | | 176 | | 88 | | | | |