

Infectious Diseases of Cattle, Buffaloes, Calves, Sheep and Goats

Benha University

Faculty of Veterinary Medicine

Programme (s) on which the course is given: Bachelor of Veterinary Medical Sciences

Department offering the course: Department of Animal Medicine (Infectious Diseases)

Academic year/level: 5th year level

Date of specification approval: Ministerial decree No. 921 on 15/ 9/ 1987 (approved in this template by the Department Council on 7 / 10/2009)

A- Basic Information

Title: Cattle, Buffaloes, Sheep & Goats Infectious Diseases **Code :** Vet 00656

Lecture: 3 hours

Practical: 4 hours

Total: 7 hours

B- Professional Information

1- Overall aims of course :

The aim of the course is to provide the students with basic education in the field of infectious diseases (cattle, buffaloes, beside calves, sheep and goats) to enable students to gain skills and ability to deal with etiology, accurate field & laboratory diagnosis, differential diagnosis, treatment & control of such diseases. Moreover, understanding the epidemiology of infectious diseases to reach a correct diagnosis and how to deal with a clinical cases and plan the specific measures to control outbreaks in the field and awareness of zoonotic importance of some infectious diseases affecting such animals (Zoonotic diseases).

2- Intended learning outcomes of the course (ILOs)

a- Knowledge and understanding

- a1 –Identify the nature of infectious diseases of cattle, buffaloes, beside calves, sheep and goats
- a2 -Define the various infectious etiological determinants and their pathogenesis
- a3- Mention specific epidemiological pattern of all animals infectious diseases
- a4-Describe different clinical manifestations and macroscopic pathological lesions
- a5-Summarize the most appropriate aids in diagnosis and differential diagnosis of the diseases
- a6-Approach the ideal therapy and accurate measures for control of all infectious diseases

b- Intellectual skills

- b1- Asses the skills of appropriate moment to take samples for diagnosis.
- b2- Analyze the appropriate tools for diagnosis and judge the skills of reading and interpretation the results.

b3 -Enhance the ability to differentiate between infectious diseases and using chemotherapeutic agents of choice.

b4-Create the ability to take a final decision in dealing with infectious disease epidemic and solving the field problems.

c- Professional and practical skills

c1-Obtain a history of animal cases (either individual or in herd) taking in the clinic.

c2-Perform clinical examination and do collections of samples for laboratory diagnosis.

c3-Use different diagnostic tools in diagnosis of infectious diseases (Field one) and interpret the common clinical and laboratory diagnostic procedures.

c4-Perform differentiation between infectious diseases.

c5-Manage and control the epidemics and solve the field problem in relation to animal and public health aspect

c6-Write a report about animal premises biosecurity

c7-Use epidemiological information of the early warning system for early diagnosis of infectious diseases.

c8-Treat the epidemiological information of OIE and other global animal health organization in diseases diagnosis & control

c9-Provide emergency care during epidemics affecting all species of animals

c10-Pronounce the risk of contamination, cross infection and predisposing factors for diseases

c11-Conduct a correct contact with relevant departments and other intended to reach a final correct diagnosis.

d- General and transferable skills

d1-Able to be a fruitful member in a group, able to give hand at any time.

d2-Able to cooperate with other colleagues in veterinary field.

d3-Able to give scientific advice to other veterinarians.

3- Contents:

Topic	Lecture	Practical	Total
Bacterial diseases of cattle	5	-	5

Viral diseases of cattle	5	-	5
Parasitic diseases of cattle	2	-	3
Bacterial diseases of buffaloes	2	-	2
Viral diseases of buffaloes	2	-	2
Parasitic diseases of buffaloes	4	-	4
Bacterial diseases of calves	3	-	3
Viral diseases of calves	4	-	4
Parasitic diseases of calves	4	-	4
Bacterial diseases of sheep& goats	4	-	4
Viral diseases of sheep& goats	5	-	5
Parasitic diseases of sheep & goats	5	-	5
Clinical exam. of cattle & buffaloes	-	12	12
Clinical exam. of sheep & goats	-	12	12
Clinical exam. of calves	-	12	12
Sampling & Laboratory investigations	-	6	6
Field allergic diagnosis	-	6	6
Chemotherapy	-	6	6
Vaccine & vaccination	-	6	6
Total	45	60	105

4- Teaching and learning methods:

- 4.1. Demonstration of diagnostic tools.
- 4.2. Clinical cases of cattle, buffaloes, calves, sheep & goats admitted to the clinic in veterinary hospital.
- 4.3. CDs, slides, photos and video tapes in lectures & practical classes
- 4.4. Field visits to dairy farms during the course

5- Student assessment methods :

- 5.1. Practical examination to assess professional and practical skills

5.2. Oral examination to assess knowledge, information and intellectual skills

5.3. Written examination to assess knowledge, information and intellectual skills

5.4. Term work: Assignment to assess management of clinical cases plus research on current infectious diseases of cattle & sheep diseases

5.6. Mid term exam

Assessment schedule :

Assessment 1 Mid term exam.	Week 7
Assessment 2 Practical exam.	Week 11
Assessment 3 Final term exam.	Week 12
Assessment 4 Oral exam.	Week 12

Weighting of assessments :

Mid term Examination	10	%
Final- term examination	50	%
Oral examination	10	%
Practical examination	15	%
Semester Work	5	%
Other types of assessment	10	%
Total	100	%

6- List of references:

6.1. Course notes: Infectious diseases of cattle & buffaloes, calves, sheep & goats for 5th grade students

6.2. Essential books (text books)

- Infectious diseases of cattle
- Clinical diagnosis of cattle
- Infectious diseases of sheep and goats
- Clinical diagnosis of sheep and goats
- Veterinary Medicine A textbook of the diseases of cattle, sheep, pigs, goats and horses".

6.3. Recommended books:

- Infectious diseases of cattle
- Calf diseases.
- Infectious diseases of sheep and goats.

6.4. Periodicals, Web sites, etc.:

- Veterinary Journal of Small Ruminants.
- American Journal of Veterinary Medical Association.
- American Journal of Veterinary Research.
- Veterinary record.
- OIE, FAO, WHO

7- Facilities required for teaching and learning:

- This course must be extended for two semesters to be in parallel with medicine course (required).
- Multimedia and a computer laboratory (required).
- Slide projector (required).
- Samples of vaccines and drugs (required)..
- Binocular microscope with camera (required).
- Glass ware, disposable syringe with needles (required).
- Microscope with dark field illumination (required).

Course coordinators :

Professor Dr. Faisal Khalil Ibrahim Hamoda

Head of Department : Professor Dr. Faisal Khalil Ibrahim Hamoda

Date: