Beni-Suef University
Faculty of Veterinary Medicine

Course specification

Course Code:	S5-INFD
Course title :	Infectious diseases
Academic year:	5th academic year 2016- 2017
Program title:	B. Sc. Veterinary Medical sciences
Contact hours/ week	5 hours/week, (2 Lect./week, 3 Practical/week)
Approval Date	

2-Professional information

Overall aims of course:

This course aims to:

1. Support the basic knowledge of etiology, epizootiology, clinical sings, and diagnosis and control measures of different infectious diseases.
2. Outline the nature of microbial pathogenesis.
3. Deal with field problems of animal infectious diseases.
4. Apply and demonstrate an understanding of basic control and management procedures including isolation, quarantine and disinfection.
5. Gain skills and ability to deal with field differential diagnosis of infectious diseases.

3- Intended learning outcomes of course (ILOs)

A-Knowledge and understanding:

By the end of this course the student should be able to:

A1- Identify the basic knowledge about etiological agents of different infectious diseases of animal origin.

A2- define the infectious disease determinants (Agent-Host Environment), gradient of infection and infection chain.

A3- describe the pathogenesis of different infectious diseases of different animal species.

A4- list the major field problems concerned with infectious diseases of different animal species.

A5- Identify the important aspects regarding the diagnosis of different infectious diseases of different animal species.

A6- mention the basic knowledge about the control measures of different infectious diseases of different animal species.

B- Intellectual skills

By the end of this course the student should be able to:

B1- analyze the field problems to reach a preliminary diagnosis.

B2- Interpret the available epidemiological and clinical data to achieve diagnosis.

B3- suggest the suitable solutions in individual cases and outbreaks.

B4- estimate the economic impact of different epidemics.

B5- enhance the ability in decision making about the control measures and solving the field problem.

B6- differentiate between infection status and infectious disease.

B7- recall and integrate the basic knowledge to take a final decision in dealing with different epizootics.

C-Professional and practical skills

By the end of this course the student should be able to:

C1- obtain a history of farm epizootics.

C2- perform the different methods and techniques of clinical examination.

C3- Perform the different sampling methods.

C4- use different diagnostic tools in diagnosis of infectious diseases and interpret the common clinical and laboratory diagnostic outcoms.

c5- practice the experience of using the traditional and to certain extent the sophisticated methods of laboratory diagnosis.

C6- acquire the experience of planning and application of a control programs.

D-General and transferable skills

By the end of studying the course, the student should be able to:

D1-enhance the skills of problem definition and how to deal with it.

D2-enhance skills of epizootiological data analysis, and clinical and laboratory examinations.

D3- work effectively as a part of a team, demonstrating decision making and time management.

D4- enhance the experience of taking history in infected farms and increase the ability of organizing control programs.

D5- collect the data of diseased animals in a suitable manner.

D6- demonstrate oral and written communication skills with staff.

4-Topics and contents

Course	Topic	No. of hours	Lectures	Practical
5th academi	Introduction of infectious diseases (Epidemiologic Triad, The chain of	4	4	

Course specification

	infection, An introduction to epidemiology, Maintenance of infection, and Principles of disease control).			
	infectious diseases of newly born calves(Epizootiology of infectious diseases of newborns, Infectious diseases causing diarrhea in newborns, Calf pneumonia)	6	3	3
	infectious diseases causing abortion in cattle	6	3	3
	Bacterial, mycotic and rickettsial diseases of cattle	16	4	12
	Viral diseases of cattle	18	6	12
	Parasitic diseases of cattle	10	4	6
	Infectious disease of camel	5	2	3
		65	26	39
5th academic year- second term infectious disease (B) 5 hours/week, (2 Lect./week, 3 Practical/week)	Infectious diseases of sheep and goat			
	-bacterial diseases	7	4	3
	-viral diseases	5	2	3
	-Parasitic diseases	8	2	6
	Infectious diseases of equine			
	-bacterial diseases	7	4	3
	-viral diseases	10	4	6
	-Parasitic diseases	8	2	6
	Infectious diseases of pet animals			
	-bacterial diseases	5	2	3
	-viral diseases	7	4	3
	-Parasitic diseases	8	2	6
		65	26	39

5-Teaching and learning methods

5.1- Lectures and oral presentations

5.2- Clinical sections , clinical skills training and laboratory practicals

5.3- The use of multimedia aids e.g. slide projector, data show, video tapes.

5.4- Campaigns and field trips which organized by the Department and the Faculty for serving the surrounding society and applied teaching for students.

5.5- Summer training organized by the Department and the Faculty.

Course specification

6-Teaching and learning methods for the students with disabilities

Office hours.

7-Student assessment

7.1. Assessments methods:

Method	Matrix alignment of the measured ILOs/ Assessments methods			
	K&U	**I.S**	**P&P.S**	**G.S**
Final Exam	1,2,3,4,5,6	2,3,5,6,7	6	1
Practical Exam	1	3	2, 4,5	1,2
Oral Exam	1,2,3,4	3,5		1,2

7.2. Assessment schedules/semester:

Method	Week(s)
Practical exams	14th week
Final exams	managed by administrations
Oral Exam	managed by administrations
Student activities	Along the course (seminars in groups)

7.3. Weight of assessments:

Assessment	Weight of assessment
Practical exams	30%
Final exams	50%
Oral Exam	20%
Student activities	-
Total	100%

8- List of references

8.1. Notes and books

- Infectious diseases of domestic animals (2004/1588) by H.I.Hosein (2015) 3th Ed.

8.2. Essential books:

- Veterinary medicine 7th ed (A text book of the diseases of cattle, sheep, pigs, goats and horses) 1983.
- Veterinary clinical diagnosis 3th Ed. 1984
- Cattle diseases 1984
- Diseases of sheep 2nd Ed. 1982
- Infectious diseases of domestic animals (2004/1588) by H.I.Hosein (2015) 3th Ed.

Course specification

8.3. Recommended texts

- The Merck veterinary manual 9th 2005
- A color atlas of small animal dermatology 1985

8.4. Journals, Websites ……..etc

Journals:

Journal of Veterinary Science

Research in Veterinary Science

Preventive Veterinary Medicine

Veterinary journal

Journal of Veterinary Diagnostic Investigation

Websites:

 1-www.google.com

2-www.OIE

3-www.FAO

4-www.Canine web sites

Course Coordinators   **Head of Department**

   Sherin Reda Rouby   Prof. Dr. Hosein Abd Al Aal

Course specification

Topic	Week	Intended learning outcomes of course (ILOs)			
		K&U (a)	I.S (b)	P.P.S (c)	G.T.S (d)
Introduction of infectious diseases	1	1	1,6	1	
infectious diseases of newly born calves	2,3	1,4	1,2,3	1	1,2
infectious diseases causing abortion in cattle	4,5	1,2,3,4.5	1,2,3	1,6	1,2
Bacterial, mycotic and rickettsial diseases of cattle	6,7	1,2,3,4	3 ,5,7	,16	1,2
Viral diseases of cattle	8	1,2,3,4,5	2,3, 5	1,6	1,2
Parasitic diseases of cattle	9,10	1,2,4,5	1,2, 5	1,6	1,2
Infectious disease of camel	11,12	3,4,5	1,2,3, 5		1,2
Infectious diseases of sheep and goat -bacterial diseases -viral diseases -Parasitic diseases	1,2,3,4	1,4,5	2,3, 7	1, ,6	1,2
Infectious diseases of equine -bacterial diseases -viral diseases -Parasitic diseases	5,6,7,,8	2,3,4	1,2,3,6	1, 6	1,2
Infectious diseases of pet animals -bacterial diseases -viral diseases -Parasitic diseases	9,10,11,12	1,2,5	1, 5		