



Course specification

1-Basic information

Course Code:	INF:4257
Course title:	Infectious diseases part 1
Academic year:	4 th academic year 2019- 2020, second semester
Program title:	B. Sc. Veterinary Medical sciences
Contact hours/ week	4 hours/week, (2 Lect./week, 2 Practical/week)
Approval Date	

2-Professional information

Overall aims of course:

This course aims to:

1. Provide graduates with professional and good veterinary practices concerning diagnosis and control programs to be competent and participate efficiently in the labor market.
2. Support the basic knowledge of etiology, epizootiology, clinical signs, and diagnosis and control measures of infectious diseases of new born animals.
3. Outline the nature of pathogenesis of diseases of new born animals and parasitic diseases of ruminants.
4. Deal with field problems of animal infectious diseases.
5. Apply and demonstrate an understanding of basic control and management procedures including isolation, quarantine and disinfection.
6. 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-** Explain the basic terms and methods used in infectious disease epidemiology, disease



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prevention and control trials, outbreak investigation, and evaluation of screening tests;

a2- Define epidemiologic approaches of disease occurrence in communities: determinants, distribution and dynamics including prevention and control.

a3- Identify the basic knowledge about etiological agents of different infectious diseases of animal origin.

a4- define the infectious disease determinants (Agent-Host Environment), gradient of infection and infection chain.

a5- describe the pathogenesis of different infectious diseases of new born animals.

a6- list the major field problems concerned with infectious diseases of new born animals.

a7- Identify the important aspects regarding the diagnosis of different infectious diseases of new born animals.

a8- mention the basic knowledge about the control measures of different infectious diseases of new born animals.

B- Intellectual skills

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

b1-Differentiate the infectious cycle of different infectious diseases to suggest the priority of elimination of selected communicable diseases.

b2- analyze the field problems to reach a preliminary diagnosis.

b3- Interpret the available epidemiological and clinical data to achieve diagnosis.

b4-suggest the suitable solutions in individual cases and outbreaks.

b5- estimate the economic impact of different epidemics.

b6- enhance the ability in decision making about the control measures and solving the field problem.

b7- differentiate between infection status and infectious disease.

b8- 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:



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- c1- Apply epidemiologic skills in outbreaks investigation.
- c2- obtain a history of farm epizootics.
- c3- perform the different methods and techniques of clinical examination.
- c4- Perform the different sampling methods.
- c5- use different diagnostic tools in diagnosis of infectious diseases and interpret the common clinical and laboratory diagnostic outcome.
- c6- practice the experience of using the traditional and to certain extent the sophisticated methods of laboratory diagnosis.
- c7- 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. Utilize computers and internet skills for outbreaks investigation.
- 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	Topics	No. of hours	No. of hours (Lectures)	No. of hours (Practical)
4 th academic year-	Introduction of infectious diseases <ul style="list-style-type: none"> • Infection and infectious disease • Epidemiologic Triad, 	12	6	6



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	<ul style="list-style-type: none"> • The chain of infection, • Time line of infection • An introduction to epidemiology, 			
	<p>Infectious diseases of newly born animals</p> <ul style="list-style-type: none"> • Epizootiology of infectious diseases of newborns, • Infectious diseases causing diarrhea in newborns, • Calf pneumonia 	20	10	10
	<p>Parasitic diseases of ruminants</p> <ul style="list-style-type: none"> • Helminths diseases • Skin diseases • Blood parasitic diseases 	20	10	10
		52	26	26

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.

6-Teaching and learning methods for the students with disabilities

Office hours.

7-Student assessment

7.1. Assessments methods:



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Method	Matrix alignment of the measured ILOs/ Assessments methods			
	K&U	I.S	P&P.S	G.S
Final Exam	1,2,3,4,5,6,8	2,3,5,6,7	6	1
Practical Exam	1	3	4,5,6,7,8	1,2
Oral Exam	1,2,3,4,5,6,10	3,5		1,2

7.2. Assessment schedules/semester:

Method	Week(s)
Practical exams	14 th 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	20%
Final exams	50%
Oral Exam	20%
Student activities	10%
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



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

8.3. Recommended texts

- The Merck veterinary manual 9th 2005

8.4. Journals, Websitesetc

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

Dr. Sherin Reda Rouby

Head of Department

Dr. Hosein Abd Al Aal



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	1,2,3	1,2	1,6	1	
infectious diseases of newly born calves	4,5,6,7	1,4	1,2,3	1	1,2
Parasitic diseases of cattle	9,10,11,12,13	5,6,7,8	1,2, 5	1,6	1,2

