

Beni-Suef University
Faculty of Veterinary Medicine
Dept. of Animal Medicine
Epidemiology & Infectious Diseases of Animals



Course Specification

1- Basic information:

Code No.: S5-INFD Course title: Epidemiology and Infectious Diseases Of Animals Academic Year: 5th

Teaching Hours: Specialization: B.V.Sc

Lecture: 2 Practical: 2 Total: 4

2- Overall aims of the Course:

By the end of this course, the student should understand the academic and practical knowledge about:

- i· Important knowledge for the basis of epidemiology.
- ii· Different epidemiological patterns of infectious diseases of animals.
- iii· The most updated knowledge about OIE and FAO lists for infectious diseases of animals.
- iv· Definition and causes of infectious diseases of animals.
- v· Pathogenesis of the diseases.
- vi· Laboratory methods of diagnosis.
- vii· Complete diagnose of different infectious diseases of animal species, e.g. cattle, buffalo, camels, sheep, goats, equines and pet animals.
- viii· Application of treatment for different diseases.
- ix· Control of different infectious diseases of all animal species, e.g. cattle, buffalo, camels, sheep, goats, equines and pet animals.
- x· Expected outbreaks of infectious diseases throughout the country.
- xi· Different field problems of animal infectious diseases.
- xii· Preparation and writing of scientific assays and presentations.

3- Intended Learning Outcomes:

a- Knowledge and Understanding

By successful completion of the course, the student should be able to:

- a.1. Define the different infectious diseases of animals.
- a.2. Recall etiological agents of different infectious diseases.
- a.3. Outline the available epidemiological data about different infectious diseases throughout the world.
- a.4. Describe pathogenesis of different infectious diseases of animals.
- a.5. Recognize clinical signs of infectious diseases of animals.
- a.6. Illustrate the clinical and laboratory diagnoses of infectious animal

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diseases.

a.7. Describe the main and essential steps for treatment and control of different infectious diseases of animals.

a.8. Study the updated infectious diseases list of OIE and FAO organizations.

a.9. Recognize, gather and prepare available data about infectious diseases in the form of scientific assays, presentations or seminars.

b- Intellectual Skills

By successful completion of the course, the student should be able to:

b1. Discriminate the collection and analysis of data about epidemiology of different infectious diseases.

b.2. Differentiate and understanding of perspectives of the infectious diseases problems.

b.3. Interpretating and finding solutions and substitutions for different infectious diseases problems.

b.4. Integrate and introduce of available data in a manner of scientific assays, presentations or seminars.

b.5. Categorize of laboratory diagnosis and post mortem lesions in dead animals for complete diagnosis.

b.6. Create plans for control of infectious diseases over areas.

c- Professional and Practical Skills:

By successful completion of the course, the student should be able to:

c.1. Assess etiology, epidemiology, clinical signs, laboratory diagnoses, treatment and control of different infectious diseases of animals.

c.2. Collect both updated and traditional methods and techniques of clinical examination.

c.3. Prepare and acquiring experience about using of traditional and sophisticated methods for laboratory examination e.g. preparation and examination of direct microscopical smears, culturing of different microbes.....etc.

c.4. Perform and acquiring experience in differential diagnosis of different infectious diseases of animals.

c.5. Acquiring experience in treatment and control of infectious diseases of animals.

c.6. Teach skills of field problems about infectious diseases of animals with substituted solutions.

c.7. Training the skills of updated lists and available knowledge from OIE and FAO organizations about different infectious diseases of animals.

c.8. Apply usage of multimedia aides in collection, introduction and analysis of available data about different infectious diseases.

d- General and Transferable Skills:

By successful completion of the course, the student should be able to:

d.1. Demonstrate and enhancement of the problem definition,

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understanding and how to deal with.

d.2. Utilize skills of epidemiological data analysis.

d.3. Enhancement of understanding pathogenesis of different infectious diseases of animals.

d.4. Discriminate the skills of clinical examinations.

d.5. Teach skills of laboratory examination.

d.6. Perform skills of differential diagnosis between different infectious diseases of animals.

d.7. Teach the skills of treatment of infectious problems.

d.8. Interpret the control of different infectious diseases and out breaks between animal populations.

d.9. Enhancement of collection, analysis and introduction of available data about different infectious diseases of animals in a sort of scientific assays, presentations and/or seminars.

d.10. Contrast the ideas and benefits of working in group teams.

4- Course Contents:

1st semester

Week	Topics	Total (hr)	Lectures (hr)	Practical (hr)
Course description				
1	Introduction to infectious diseases	5	2	3
2-3	Epidemiology of infectious diseases	10	4	6
4-5	Infectious diseases causing respiratory manifestations in large ruminants	10	4	6
6-7	Infectious diseases causing abortion in large ruminants	5	2	3
8-9	Infectious diseases causing sudden death in large ruminants	5	2	3
10	Mastitis in Large ruminants	5	2	3
11	Infectious diseases causing nervous manifestations in large ruminants	5	2	3
12	Infectious diseases causing diarrhea in large ruminants	5	2	3
13	Infectious diseases causing Lymph node affection in large ruminants	5	2	3
	Student activities:			
	- Farm visits			
	- Field trips for diagnosis and treatment of diseased cattle			
	- Writing scientific assays			
	- Scientific presentations			
	- Internet search			

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Total 55 22 33

2nd semester

Week	Topics Course description	Total (hr)	Lectures (hr)	Practical (hr)
1	Infectious diseases causing abortion in small ruminants	2.5	1	1.5
1	Infectious diseases causing lymph node enlargement in equines	2.5	1	1.5
2	Infectious diseases causing skin affections in small ruminants	2.5	1	1.5
2	Infectious diseases causing abortion in equines	2.5	1	1.5
3	Infectious diseases causing nervous manifestations in small ruminants	2.5	1	1.5
3	Infectious diseases causing diarrhea in equines	2.5	1	1.5
4	Infectious diseases causing respiratory manifestations in small ruminants	2.5	1	1.5
4	Infectious diseases causing nervous manifestations in equines	2.5	1	1.5
5	Infectious diseases causing sudden death in small ruminants	2.5	1	1.5
5	Infectious diseases causing respiratory manifestations in equines	2.5	1	1.5
6	Infectious diseases causing mouth lesions in small ruminants	2.5	1	1.5
6	Infectious diseases causing skin affections in equines	2.5	1	1.5
7	Infectious diseases causing Fever in small ruminants	2.5	1	1.5
7	Infectious diseases causing nervous manifestations in pet animals	2.5	1	1.5
8	Infectious diseases causing diarrhea in small ruminants	5	2	3
9	Infectious diseases causing lymph node enlargement in small ruminants	5	2	3
10	Infectious diseases causing immunosuppression in pet animals	5	2	3
11	Infectious diseases of diarrhea in pet animals	5	2	3
12	Infectious diseases causing respiratory manifestations in pet animals	5	2	3
13	Infectious diseases causing skin affections in pet animals	5	2	3

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Student activities:

- Farm visits
- Field trips for diagnosis and treatment of diseased animals
- Writing scientific assays
- Scientific presentations
- Internet search

	Total	55	22	33
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5- Teaching and Learning Methods:

- **Lectures:** depending on sharing between staff members and students as well as all lectures supported with real cases and multimedia aids.
- **Training visits:** to different animal's farms and veterinary centers for training on diseased animals.
- **Practical sections:** Laboratory diagnosis of different infectious diseases of all animal species.
- **Self learning:** Electronic learning, Seminars, scientific search on related websites, international, national and local journals, related books in faculty library.
- **Scientific presentations**
- **Assays and reviews**
- **Discussion groups**

6- Teaching and Learning Methods for Handicapped:

Not applicable

7- Students assessment:

Methods of assessments:	Schedule	Weighing (degrees)		Intended learning outcomes
		Semester	Final	
a) Written exam by the end of each semester	Week:15, 16,17	25	50	a1 to a6 b1 to b3
b) Practical exam at the end of each semester	Week: 14	10	20	c1 to c6

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c) Oral exam by the end of each semester	Week: 15, 16, 17	10	20	a1 to a6 b1 to b3 c1 to c6 d1 to d3
d) Student activities	Along the semester	5	10	a1 to a6 b1 to b3 c1 to c6 d1 to d3

8- List of References:

a- Course notes:

- Text book of infectious diseases of animals, Professor Hosein Ibrahim Hosein, 2011.
- Color Atlas of infectious diseases of animals, Professor/ Ahmed Mamdouh El-Sherif, 2011.
- Practical aid in diagnosis of infectious diseases of animals, Professor/ Ahmed Mamdouh El-Sherif, 2011.

b- Essential books:

- Veterinary Medicine, A text book of the diseases of Cattle, Sheep, Goats, Pigs and Horses, 10th edition, November, 2006.

c- Recommended books

- 1-How to write and publish a scientific paper 1995.
- 2-Veterinary epidemiology 2nd edition 1995.
- 3-Veterinary clinical epidemiology, A problem oriented approach. 2005.
- 4-Pathogenesis of bacterial infections in animals 1993.
- 5-Veterinary clinical examination and diagnosis 2000.
- 6-Text book of medicine 2004.
- 7-Veterinary internal medicine 2000.
- 8-Large animal internal medicine 1998.
- 9-Veterinary infectious diseases 1997.
- 10-Diseases of dairy cattle 1995.
- 11-Clinical infectious diseases 1992.
- 12-Diseases of sheep 2000.
- 13-All about goats 1992.
- 14-Goat medicine 1994.
- 15-Secrets of Camel's life 1995.
- 16-Equine Medicine secrets 1999.
- 17-Clinical examination of horse 1997.
- 18-Small animal internal medicine 1998.
- 19-Hand book of small animal practice, 2nd edition 1992.
- 20-A guide to laboratory animal technology 1995.

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d- Websites

- 1-www.google.com
- 2-www.OIE
- 3-www.FAO
- 4-www.Canine web sites
- 5-www.Free animal health resources from the college of veterinary
- 6-www.Parkvets the ultimate vet websites
- 7-www.net vet veterinary resources-agricultural sites
- 8-www.working dogs web link page
- 9-www.us Davis school of veterinary medicine
- 10-www.veterinary medicine
- 11-www.vml-course related instruction web sites in veterinary medicine
- 12-www.cat. Franciers web site
- 13-www.national web sites associations
- 14-www.veterinary Extension: sister web sites
- 15-www.selected web sites
- 16-www.newzealand veterinary services
- 17-www.medaille college library
- 18-www.west public library
- 19-www.veterinary medicine web sites
- 20-www.internet web sites for veterinary practices
- 21-www.a&I veterinary literature
- 22-www.animal health center-links to related web sites
- 23-www.vet agenda-veterinary events calendars-worldwide congresses
- 24-www.veterinary clinical sciences>home (dnn2.1.2
- 25-www.veterinary science web sites
- 26-www.georgia veterinary medical association
- 27-www.veterinary technology
- 28-www.florida veterinary medical association
- 29-www.pre-veterinary medicine students web sites of internet
- 30-www.interesting web sites
- 31-www.veterinary organization

The program specification was discussed and assigned in the department council in:
1/3 /2012

Course Coordinator

Head of Department

Name: Prof. Ahmed Mamdouh El-Sherif

Prof. Essam Mahmoud Saied

Sig. :

Sig.:

Date :

Date:

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Course Matrix for Achievement of Intended Learning Outcomes

Topics	Wk	Knowledge and Understanding	Intellectual Skills	Practical and Professional Skills	General & Transferable Skills
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