Course specification
2018-2019

1-Basic information

Course Code:	**AHY: 5270**
Course title :	Animal hygiene and Preventive Medicine
Academic year:	**5th academic Year**
Program title:	B. Sc. Veterinary Medical sciences
Contact hours/ week	**4 hours/week, (2 Lect./week, 2 Practical/week)**
Approval Date	

1-Professional information

Overall aims of course:

This course aims to:

1-Identify the role of veterinarian in maintaining and improving a high level of public health and food safety.

2- Provide knowledge about the proactive measures "Disease Prevention" is better and economical than cure.

a- Intended learning outcomes of course (ILOs)

a. Knowledge and understanding:

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

a.1. Illustrate the general concepts and principles of veterinary epidemiology & uses.
a.2. Describe the principles of prevention and control of contagious diseases .
a.3.. Recognize the general measures for prevention and control of external parasites.
a.4. Describe risk factors common to an aquaculture operation
a.5. Understand principles of biosecurity measures in animal farms.
a.6. Illustrate the consequences of poor hygiene and different methods of disinfection process.
a.7. Understand the quarantine regulation for imported and exported animal for different purpose such as breeding or slaughtering in addition to animals byproduct.
a.8. Describe new methods used for control of rodents.

b. Intellectual skills

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

b.1. Deal with quarantine regulation for imported and exportation of animals and animal byproducts.
b.2. Compare between different systems for aquaculture.
b.3. Relate and interpret of field data, diagnostic test results to exist survey and surveillance systems and application of in risk analysis process.
b.4. Correlate the measures applied for prevention and control of contagious diseases.

Course specification
2018-2019

b.5. Compare between different methods for disinfection and control of external parasites of veterinary importance.
b.6. Relate using biosecurity measures in controlling incidence of diseases.
b.7. Deal with the problem of rodent infestation in animal farms.

C. Professional and practical skills

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

c.1. Perform animal farms in accordance to biosecurity measure.
c.2. Practice basic epidemiological skills; they will learn to apply epidemiologic tools in animal disease surveillance/survey systems in order to conduct valid risk analyses.
c.3. Employ the acquired knowledge in prevention and control of contagious and zoonotic diseases.
c.4. Perform control of external parasites affecting livestock.
c.5. Measure and monitor the environmental problems for aquaculture.
c.6. Practice different techniques for disinfection of animal houses.
c.7. Employ new methods for rodent control.
c.8. Obtain all available updates on quarantine regulation for animals and their products.

d. General and transferable skills

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

d.1 Utilize new technological tools.
d.2 Work in group.
d.3 Able to communicate with specialists.
d.4 Participate in private business.
d.5. Communicate effectively with researchers from different disciplinary backgrounds and Communicate effectively with other people with an interest in human and animal health, including the general public and key policy makers.

2-Topics and contents

Course	Topic	Total (hr)	Lectures	Practical
5th year- Course Title: Animal Hygiene and Preventive Medicine (Lec. 2 h./week, Pract. 2h./week)	1) Epidemiology (Introduction, Uses, Basic epidemic theory, Epidemic curve, Outbreak investigation, Eradication.	14	6	8
	2) Control of contagious diseases	4	4	-
	3) Disinfection of livestock farms	12	4	8
	4) Biosecurity	4	4	-
	5) Control of external parasites in livestock farms	6	2	4
	6) Aquaculture hygiene	2	2	-
	7) Rodent control	4	2	2

Course specification
2018-2019

	9) Quarantine regulation for animals and their products	2	2	-
	8) Case report & Visit	4	-	4
	Total	52	26	26

3-Teaching and learning methods

3.1. Lectures (brain storm, discussion) using board, data shows and multimedia aids.

3.2. Self learning by preparing essays and presentations (computer researches and faculty library)

3.3. Practical session (water samples analysis, efficacy evaluation of disinfectants and uses of nanomaterial).

4-Teaching and learning methods for the students with disabilities

4.1. Office hours- special meeting-practical course revision.

5-Student assessment

5.1. Assessments methods:

Method	Matrix alignment of the measured ILOs/ Assessments methods			
	K&U	**I.S**	**P&P.S**	**G.S**
written Exam	a.1, a.2, a.3, a.4, a.5, a.6, a.7	b.1, b.2, b.3, b.4, b.5, b.6	c.1, c.2, c.3, c.4, c.5, c.6, c.8	d.1
Practical Exam		b.3, b.5, b.7	c.2, c.4, c.6, c.7	d.2, d.3, d.4, d.5
Oral Exam	a.1, a.2, a.3, a.4, a.5, a.6, a.7	b.1, b.2, b.3, b.4, b.5, b.6	c.1, c.2, c.3, c.4, c.5, c.6, c.8	d.1,d.3

5.2. Assessment schedules/semester:

Method	Week(s)
Practical exams	15th
written exams	Managed by administration
Oral Exam	Managed by department
Student activities	-

5.3. Weight of assessments:

Assessment	Weight of assessment
Practical exams	20
written exams	50
Oral exams	20

Course specification
2018-2019

Student activities	10
Total	100%

8- List of references

8.1. Notes and books

Departmental notes on:

-Textbook of Animal, Poultry and Environmental Hygiene (part II)

-Practical Note of Animal, Poultry and Environmental Hygiene (part II)

8.2. Essential books: in library (Faculty of Veterinary Medicine)

- Environmental epidemiology principles and methods." Ray.M., Merrill".(2008)
- Veterinary Epidemiology: An Introduction [Paperback] Dirk Pfeiffer
- Veterinary Epidemiology, Third Edition By Michael Thru field (1995)
- Water pollution (causes, effects and control) P.K Goel (1997)
- Principles and practice of soil science R.E White, Blackwell Science (1997).
- Farm animal Health and Disease control John K. Philadelphia 1982
- Understanding Epidemiology, Mary E. Trrrence 2002.
- Animal Health and Housing. "David Sainsbury", London, Bailliere, Tindal and Cassel 1997.
- Animal Health and Housing. "David Sainsbury" Blackwell Science 2000.
- Keeping livestock healthy, N Bruce Haynes (2001).
- Disinfection, Sterilization and preservation Seymour S Block, Block Lea Febiger (1991).
- Air pollution. S.K. Agarwal (2009).
- Microbiological examination of water and wastewater. Maria Csuros. (1999).

8.3. Recommended texts

- Veterinary Hygiene by Robert Georg Linton (Paperback - 8 Jan 2010)
- Veterinary Hygiene by R.G Linton (Hardcover - 1940)
- A Manual Of Veterinary Hygiene Sir Frederick Smith (Author) Published By: General Books
- Veterinary Epidemiology: An Introduction [Paperback] Dirk Pfeiffer Dirk Pfeiffer (Author) › Visit Amazon's Dirk Pfeiffer Page
- Veterinary Epidemiology, Third Edition By Michael Thrusfield
- Fundamental pollution: By Krishman Kannan 1997, S. Chard and Company LTD.
- Veterinary Hygiene by Robert Georg Linton (Paperback - 8 Jan 2010)
- Veterinary Hygiene by R.G Linton (Hardcover - 1940)

8.4. Journals, Websites ……..etc

Journals:

- Epidemiology and infection journal
- Veterinary Bulletin

Course specification
2018-2019

- Veterinary Index
- Journal of Animal Science
- Journal Toxicology and Environmental Health
- J. Environmental monitoring and assessment
- Environmental pollution
- Journal Veterinary Research
- J. Environ. Quality
- Poultry Science

Websites:

- www.educations.com……
- www.thepigsite.com/
- www.disinfectants1.com
- www.rvc.ac.uk
- www.educations.com
- www.thepigsite.com/
- www.disinfectants1.com
- -www.rvc.ac.uk

Course Coordinators **Head of Department**

Dr. Asmaa Nady Mohammed **Prof. Dr. Mohamed Ali Ibrahim**

Course specification

Course specification

Topic	Total hours/13 weeks	Intended learning outcomes of course (ILOs)			
		K&U (a)	I.S (b)	P.P.S (c)	G.T.S (d)
1) Epidemiology (Introduction, Uses, Basic epidemic theory, Epidemic curve, Outbreak investigation, Eradication.	14	a1	b3	c2	d1,2
2) Control of contagious diseases and quarantine regulation	4	a2	b3,4	c3	d1,3
3) Disinfection of livestock farms	12	a6	b5	c6	d3,4
4) Control of external parasites in livestock farms	4	a3	b5	c4	d2
5) Rodent control	6	a8	b7	c7	d1
6) Aquaculture hygiene	2	a4	b2	c5	d4,5
7) Biosecurity	4	a5	b6	c1	d4,5
8) Quarantine regulations of animals and their products	2	a7	b1	c8	d3
9) Case report & Visit	4	-	-	-	d2,4,5
Total	52				