

Specification for Animal, Poultry and Environmental Hygiene course 2019/2020

A-Affiliation

1.	Relevant program	Bachelor of Veterinary Medical Science (BVMSc)
2.	Department offering the course	Animal hygiene and veterinary Management

Date of specification approval: ministerial decree No. 1727 on 26/4/2017
(Approved in this template by the department council on 1/10/2019)

B-Basic information

1.	Course title	Animal, Poultry and Environmental Hygiene
2.	Course code	415 (B) I
3.	Level	4 th year
4.	Semester	Second term
5.	Total hours/week	5
6.	Lecture hours/week	2
7.	Practical hours/week	3

C-Professional Information

1- Course learning objectives

- Provide the students with an advanced education in the field of poultry housing and hygienic measures to provide safe and comfortable environment for efficient production under different field and environmental conditions.
- Highlight the importance of hygienic measures of the farms and using of sanitizers, disinfectants and insecticides as an essential step in biosecurity programs.
- Stress on the effect of different environmental stressors on the animal health and measures for amelioration of their deleterious effect.
- Help the students to understand the basics of veterinary epidemiology
- The course also pays special attention to hygienic measures for carcass disposal during outbreaks, how to prepare and disinfect animal housing between batches and during outbreaks, quarantine measures, prevention and control of diseases and general measures for dealing with notifiable diseases.

2- Intended learning outcomes of the course (ILOs):

a- Knowledge and understanding

After successful completion of the course the students should be able to:

1. Mention the general requirements for poultry housing
2. Illustrate general layout of poultry farms for different production sectors
3. Define different causes of stress and mention measures of amelioration

- a.4. Classify disinfectants, sanitizers and insecticides and explain their mode of action and their uses in the farm as a part of a biosecurity plan.
- a.5. Define the term used in veterinary epidemiology, tell the patterns of disease, and list the general principles for prevention and control of diseases

b- Intellectual skills

After successful completion of the course the students should be able to:

- b.1. Design a general layout for poultry farms .
- b.2. Choosing the appropriate system of housing and design according to type of production and environmental requirements and manage environmental stressors.
- b.3. Compare between different disinfectants for use under different field situation and housing systems, Interpret disinfection process.
- b.4. Conclude suitable methods for application of insecticides under different field conditions and plan a program for eradication of skin parasites.
- b.5. Evaluate the role of different environmental stressors in multifactorial diseases

c- Professional and practical skills

After successful completion of the course the students should be able to:

- c.1. Manage different poultry housing to provide the birds with their requirements under different field situations and for different types of production .
- c.2. Judge biosecurity measures applied in different animal farms .
- c.3. Evaluate the efficiency of different disinfectants

d- General and transferable skills

After successful completion of the course the students should have the following skills

- d1- Work under pressure and / or contradictory condition in contain codes
- d2- Communicate verbally and non-verbal with lecturers and class-mates
- d3- Function in a multidisciplinary team during conducting a research paper.
- d4- Search skill.
- d5- Interact with other graduates all over the world.
- d6- presentation skill.

3- Course contribution in the program ILOs:

Course ILOS	Program ILOS
A Knowledge and understanding	a ^{1,2,13}
B Intellectual skills	b ^{11,13}
C Professional and practical skills	c ¹²
D General and transferable skills	d ^{1,2,3,5,6}

3.1- Course contents:

Topic	Lecture hours	Practical hours
Poultry housing		

Housing of poultry	2	9
Biosecurity programs for poultry farms	2	3
Farm hygiene		
Disinfection of animal buildings	6	9
The insecticides and eradication of skin parasites		6
Environmental stressors and animal welfare		6
Poisonous plants	-	12
Veterinary Epidemiology		
Common terms	2	-
Epidemiological investigations	2	-
Etiological agents	6	-
Disease transmission		-
Surveillance		-
Risk analysis	2	-
Preparedness		-
Prevention and control of contagious diseases	4	-
Notification	2	-
Qarantine		-
Hygienic disposal of carcass	2	-
Total	30	45

The midterm and practical exams are included during the semester

3.2- ILOs matrix:

Topic	A) Knowledge and understanding	B) Intellectual skills	C) Professional and practical skills	D) General and transferable skills
Housing of poultry	a1, a2, a3, a4, a5	-	c1,c2,c3	d1
Biosecurity programs for poultry farms	a1, a2, a3, a4, a5	b1, b2, b3,b4,b5	c1,c2,c3	d2 to d6
Disinfection of animal buildings	a1, a2, a3, a4, a5	b1, b2, b3,b4,b5	c1,c2,c3	d2 to d6
The insecticides and eradication of skin parasites	a1, a2, a3, a4, a5	b1, b2, b3,b4,b5	c1,c2,c3	d2 to d6
Environmental stressors and animal welfare	a1, a2, a3, a4, a5	b1, b2, b3,b4,b5	c1,c2,c3	d2 to d6
Poisonous plants	a1, a2, a3, a4, a5	b1, b2, b3,b4,b5	c1,c2,c3	d2 to d6
Common terms	a1, a2, a3, a4, a5	-	-	d2 to d6
Epidemiological investigations	a1, a2, a3, a4, a5	b1, b2, b3,b4,b5	c1,c2,c3	d2 to d6
Etiological	a1, a2, a3, a4, a5	b3,b4, b5	c3,	d2 to d6

agents	a5			
Disease transmission	a1, a2, a3, a4, a5	b3,b4, b5	c1,c2,c3	d2 to d6
Surveillance	, a3, a5	b3,b4, b5	c1,c2,c3	d2 to d6
Risk analysis	, a3, a5	b3,b4, b5	c1,c2,c3	d2 to d6
Preparedness	, a3, a5	b3,b4, b5	c1,c2,c3	d2 to d6
Prevention and control of contagious diseases	, a3, a5	b3,b4, b5	c1,c2,c3	d2 to d6
Notification	, a3, a5	b3,b4, b5	c1,c2,c3	d2 to d6
Qarantine	, a3, a5	b3,b4, b5	c1,c2,c3	d2 to d6
Hygienic disposal of carcass	, a3, a4, a5	b3,b4, b5	c1,c2,c3	d2 to d6

4- Teaching, learning and assessment methods:

ILOs	Teaching and Learning methods								assessment method				
	L	P&M	D&S	P	Ps	Bs	I	semester	midterm	oral	practical	written	
Knowledge and understanding	a1	x	x	x	0	0	x	0	x	x	x	0	x
	a2	x	x	x	0	0	x	0	x	x	x	0	x
	a3	x	x	x	0	0	x	x	x	x	x	0	x
	a4	x	x	x	0	0	x	x	x	x	x	0	x
	a5	x	x	x	0	0	x	x	x	0	x	0	x
Intellectual skills	b1	x	x	x	0	x	x	x	x	x	x	0	x
	b2	x	x	x	0	x	x	x	x	x	x	0	x
	b3	x	x	x	0	x	x	x	x	x	x	0	x
	b4	x	x	x	0	x	x	x	x	x	x	0	x
	b5	x	x	x	0	x	x	x	x	x	x	0	x
Oral and practical	c1	0	x	0	x	x	x	x	x	0	x	x	x
	c2	0	x	0	x	x	x	x	x	0	x	x	x
	c3	0	x	0	x	x	x	x	x	0	x	x	x
General skills	d1	x	0	0	0	0	0	0	x	0	x	0	x
	d2	x	0	0	x	0	0	0	x	0	x	0	x
	d3	x	x	0	x	0	0	0	x	0	x	0	x
	d4	x	x	x	0	0	0	0	x	0	x	0	x
	d5		0	0	0	0	0	0	x	0	x	0	x
	d6		x	0	0	x	0	0	x	0	x	0	x

L :Lecture, P&M: Presentations & Movies, D&S: Discussions & Seminars PT: Practical training, Ps: Problem solving, Bs: Brain storming, I:imagination

5- Assessment timing and grading:

Assessment method	timing	grade
Mid-term exam and semester work	6 th week	15
Practical exam	14 th week	20

oral exam	End of semester	15
Written exam	End of semester	50
total		100

6- List of references

6.1- Course notes:

A concise guide of animal and poultry hygiene edited by staff members

6.2- Essential books (text books)

- Andres Aland (2013) Livestock Housing
- P.K. Goel. (2009) Water Pollution
- Frank R. Theroux (2008) laboratory manual for chemical and bacterial analysis of water and sewage

6.3- Recommended books

- Course note
- Andres Aland (2013) Livestock Housing.
- Frank R. Theroux (2008) laboratory manual for chemical and bacterial analysis of water and sewage.

6.4- Periodicals, Web sites, . . . etc

- Veterinary Records.
- Benha veterinary medical journal
- www.OIE.int.org
- www.WHO.int.org
- www.cdc.org
- www.ekb.eg

7- Facilities required for teaching and learning

- Teaching hall (Data show and White board)
- Equipped Department laboratory (Instruments used for air sampling and detection of some pollutant, in addition to those used for determination of air temperature, humidity and air velocity)
- Farm animal education
- Laboratory animal unit.

Course coordinator: Prof Dr. MONA ASHOUB

Head of department Prof Dr. SAEED EL-LITHY

Signature

Date 1/10/2019