Epidemiology of Zoonotic Diseases (781M)

MVSc COURSE SPECIFICATION

1-Basic information	
Course Code:	**781M**
Course title :	**Epidemiology of zoonotic diseases.**
Academic year:	**2014-2015**
Program title:	**Master in Veterinary Medical Sciences (Zoonoses)**
Department offering the Course:	**Department of Animal Hygiene and Zoonoses**
Contact hours/week/semester:	**Lecture: 1 hr/week**
	Practical—hr/week
Course coordinator:	**Dr : Sherif Zidan**

2-Professional information

1- Overall aims of course

At completion this course, the veterinarian should be able to:

- Understand what veterinary epidemiology is and the concepts of the interrelationships between agent- host-environment and interaction of disease determinants, immunity and the causation of diseases.

2- Intended learning outcomes of course (ILOs)

a-Knowledge and understanding

By the end of this course the student should be get a basic knowledge about:-

- a.1 Define briefly the terms of epidemiology, its types and uses.
- a.2 Outline some principals of prevention, control and eradication of zoonotic diseases.
- a.3 List Patterns of disease occurrence and factors affecting them.
- a.4 Realize the relation of good hygiene inside animal houses on controlling animal and human epidemics.
- a.5 Recognize the danger of exotic bacterial, viral and parasitic diseases and the different strategies for control and eradication.

b-Intellectual skills

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

- b.1- Analyze and interpreting data about existence, distribution, transmission and possible risk factors of zoonotic disease.
- b.2-Design strategies for prevention, control and eradication of the diseases.
- b.3- Investigate the disease in the field and connect the disease events with the possible causal factors.
- b.4- Evaluates different techniques for analysis of samples in a fast and simple manner.
- b.5- Plan for a preventive strategy against zoonotic diseases and evaluate the impact of diseases.

c-General and transferable skill

By the end of studying the course, the student should be able to
- c.1. Work effectively as part of a team.
- c.2.Faciliate use of library facilities and IT tools.
- c.3.Explore appropriate computer / keyboard skills including word
- c.4. Enhance the processing, spreadsheets, presentation packages and graph plotting.

3-Topics and contents

Topics (course No.)	Lecture	Tutorial/practical
Common terms and policy of disease control and prevention	10	--
Veterinary epidemiology -Uses and types of epidemiological investigations -Patterns of disease occurrence and factors affecting them. - Epidemiological triad and causation of diseases. - Host- parasite relationship.	40	
Epidemiology of bacterial diseases	14	-
Epidemiology of viral diseases	14	
Epidemiology of parasitic diseases	10	-
Total	**88**	**--**

Teaching and learning methods

4.1. Lectures.
4.2. Practical.
4.3. Self-learning activities.

Student assessment

a. METHODS:

1- Written examination	For assessment of knowledge, back calling and Intellectual skills
2- Practical examination	For assessment of practical and professional skill.
3- Oral examination	For assessment of knowledge and Intellectual skills
4- Student activities	For assessment of knowledge and general and transferable skills

b. MATRIX ALIGNMENT OF THE MEASURED ILOS/ ASSESSMENTS METHODS:

	K.U (a)	I.S (b)	P.P.S (c)	G.S (d)
Written exam	1,2,3,4,5,	1,2,3,4,5,		**-**
Oral exam	1,2,3,4,5,	1,2,3,4,5,		**-**
Student activities (assay, seminar, etc.)				**1-4**

5.3-Weight of assessments WEIGHT OF ASSESSMENTS:

Assessment	Allocated Mark	Evidence
Final written exam	**50%**	Marked and signed written paper
Oral exam	**50%**	Signed list of oral exam marks
Student activities		Assay, presentations, review

6. List of References

6.1.Essential book

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Acha, P. N. and Szyfres, B. (2003): Zoonoses and Communicable diseases common to man and animals. PAHO, Sci. Tech. Pub.3rd ed. Volume I (Bacterial diseases).

James, H (1980): CRC Handbook series of Zoonose:VolumeII . CRC press. Inc. Boca, Raton, Florida. International Standard book number 0-8493-2907-8 (vol II) Library of Congress card number 78-10696 printed in the United States. ISBN 0-8493-2907-8.

6.2. Recommended Books

Standard Methods for Examination of Water and Waste Water. A.P.H.A. (2005): Inc., Washington D.C., USA.

Mostafa, T.*H.* **and Samaha,** H.A. (1995): Zoonoses. Alexandria University.

    W.H.O. (1992): Informal consutation on the Intestinal protozoan infections. WHO/CDs/IPI 92. 2,1-41.

67.4. Other Resources, websites, journal….

Journal of Clinical. Microbiology.

- ❖ Journal of vector borne zoonoses.
- ❖ Journal of Infection and Immunity.
- ❖ Journal of Hygiene.
- ❖ Journal of Animal Science.
- ❖ Journal of parasitology.
- ❖ Journal of Tropical Animal Health and Production.
- Microbiological Review Journal.
- Journal of Microbiology.

7- Facilities required for teaching and learning

7.1 Data-show.

7.2 Network for technology transfer.

7.3 Computer.

	Course coordinators	Head of department
Name	Dr. Sherif Zidan	Prof. Dr. Ahmed Byomi
Signature		

781 MVSc Matrix alignments of course topics and ILOs

| Topic | No. of hours /week | | Total hours | Hours for lect. | Hours for pract. | ILOs | | | | T&L. methods | | | | |
	Lect.	Pract.				K&U (a)	I.S (b)	P.P.S (c)	G.T.S (d)	Lect.	Pract.	Self & active leaning	Audio visual	Case study
Common terms and policy of disease control and prevention	2	-	10	10		1	4		1,	+	-			
Veterinary epidemiology	2	-	40	40		**2,3,4**	**2.3.5**		**2,3**	+	-			
Epidemiology of bacterial diseases.	2	-	14	14		5	1		4	+	-			
Epidemiology of viral diseses .	2	-	14	14		5	1		4	+	-			
Epidemiology of parasitic diseases.	2	-	10	10		5	1		4	+	-			

رئيس القسم العلمى: أد احمد محمد بيومي

: د شريف زيدان