



University of Sadat City  
Faculty of Veterinary Medicine  
Dept. of Poultry and Rabbits Medicine  
(2014-2015)



# Viral Diseases of Poultry (762M)

## MASTER COURSE SPECIFICATION

### A. BASIC INFORMATION

<b>University:</b>	University of Sadat City
<b>Faculty:</b>	Veterinary Medicine
<b>Program on which the course is given:</b>	Master in Veterinary Medical Sciences (Poultry and Rabbits Diseases )
<b>Department offering the Course:</b>	Poultry and Rabbits Medicine
<b>Course code:</b>	762M
<b>Course title:</b>	Viral Diseases of Poultry
<b>Lecture (hr/week):</b>	2
<b>Practical (hr/week):</b>	2
<b>Course coordinator:</b>	Dr. Alaa Gaballa

## 2- Professional information

<b>1- Overall aims of course</b>
<b>Upon successful completion of the course, the student will be able to:</b> <ul style="list-style-type: none"><li>❖ Identify the different viral diseases affecting different birds species.</li><li>❖ Develop approaches for prevention, diagnosis and treatment of viral diseases.</li></ul>
<b>2- Intended learning outcomes of course (ILOs)</b>
<b><u>a-Knowledge and understanding</u></b>
<b>By the end of this course the graduate should be able to:</b> <ul style="list-style-type: none"><li>a.1. Define the different viral diseases concepts.</li><li>a.2. recognize the epidemiology of viral disease of poultry and rabbits.</li><li>a.3. Explain the characteristics clinicopathological lesion of viral disease of poultry and rabbits</li><li>a.4. Clarify the vaccination programs against viral diseases.</li><li>a.5. Recognize the different methods for diagnosis and treatment of viral diseases</li><li>a.6. List factors affecting severity and occurrence of viral diseases.</li></ul>
<b><u>b-Intellectual skills</u></b>
<b>By the end of this course the graduate should be able to :-</b> <ul style="list-style-type: none"><li>b.1. Analysis reasons and sources of viral infection in poultry farms.</li><li>b.2. Apply the proper approach for diagnosis and differential diagnosis.</li><li>b.3. Design the biosecurity and vaccination programs to control viral diseases.</li><li>b.4. Select the most suitable and economic way of treatment and prevention of viral disease in poultry .</li></ul>
<b><u>c-Professional and practical skills</u></b>
<b>By the end of this course the graduate should be able to:</b> <ul style="list-style-type: none"><li>c.1. Carry out clinical examination, postmortem, sampling, labeling and preservation of samples.</li><li>c.2. Carry out the egg inoculation for viral isolation .</li><li>c.3. Able to perform some of molecular and serological tests used for detection of viral antigens or antibodies in clinical samples and analyze results.</li><li>c.4. Use appropriate basic laboratory equipment safely and efficiently.</li></ul>
<b><u>d-General and transferable skill</u></b>
<b>By the end of studying the course, the student should be able to</b> <ul style="list-style-type: none"><li>d.1. Work effectively as part of a team.</li><li>d.2. Efficiently make use of library facilities .</li></ul>

- d.3.** Explore appropriate computer / keyboard skills including word  
**d.4.** Processing, spreadsheets, presentation packages and graph plotting.

### 3- Topics and contents

Topic	No. of hours		
	Lectures	Practical	Total
New Castle Disease.	8	-	8
Avian Influenza.	8	-	8
Infectious bursal disease.	8	-	8
Infectious Bronchitis.	8	-	8
Infectious laryngotracheitis	4	-	4
Chicken anemia virus	4	-	4
Adeno virus	6	-	6
Reovirus.	8	-	8
Tumor viral diseases	10	-	10
Nervous viral disease	8	-	8
Duck viral diseases	10	-	10
pox virus infection	6	-	6
Clinical examination of viral diseases	-	20	20
Postmortem examination	-	12	12
Collection and preservation of samples from affected poultry	-	12	12
Isolation and identification of different viruses	-	12	12
Serological tests for viruses detection	-	20	20
Molecular diagnosis of viral diseases	-	12	12
<b>Total</b>	<b>88</b>	<b>88</b>	<b>176</b>

### 4- Teaching and learning methods

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

### 5-Student assessment

#### A. METHODS:

1- Written examination	For assessment of knowledge, back calling and Intellectual skills
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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. MATRIXALIGNMENT OF THE MEASURED ILOs/ ASSESSMENTS METHODS:**

	<b>K.U (a)</b>	<b>I.S (b)</b>	<b>P.P.S (c)</b>	<b>G.S (d)</b>
Written exam	1,2,3,4,5,6	1,2,3,4		
Practical exam			1,2,3,4	
Oral exam	3,4,5,6	2,3,4		
Student activities				1-4

**C. WEIGHT OF ASSESSMENTS:**

<b>Assessment</b>	<b>Allocated Mark</b>	<b>Evidence</b>
Final written exam	<b>50%</b>	Marked and signed written paper
Practical exam	<b>20%</b>	Marked and signed practical exam paper
Oral exam	<b>20%</b>	Signed list of oral exam marks
Student assignments	<b>10%</b>	Representative samples of presented materials

**6- List of references**

**6.1. Essential books**

**1-Diseases of poultry12th edition**

Edited by saif,Fadly and Glisson (Iowa state University press Ames, Iowa, USA) 2008

**2-Avian Medicine and Surgery**

Edited by Robert B.Altman (W.B.Saunders company )1997  
(Iowa state University press Ames, Iowa, USA)

## **6.2. Recommended texts**

### **1-Principle s of poultry Science**

Edited by S.P.Rose (CAB International UK)2006

### **2-Poultry diseases sixth edition**

Edited by frank Jordan 2008

## **6.3. Journals , Websites .....etc**

- 1- Poultry Science Journal
- 2- British poultry science Journal
- 3- Poultry Disease Journal

Websites

# [msucares.com/poultry/diseases/disviral.htm](http://msucares.com/poultry/diseases/disviral.htm)

#[www.amerpoultryassn.com/respiratory\\_disease.htm](http://www.amerpoultryassn.com/respiratory_disease.htm)

**Course coordinator:**

**Dr.Alaa Abdelrazik Gaballa**

**Head of department:**

**Prof. Dr. Shaaban Gadallah**

## Matrix alignment 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)	LS (b)	P.P.S (c)	G.T.S (d)	Lect.	Pract.	Self & active leaning	Audio visual	Case study
New Castle Disease.	8	-	8	4		1,2,4,5,6	1,2,3,4		1,2,3,4	+	-			
Avian Influenza.	8	-	8	8		1,2,3,4,5,6	1,3,4		1,2,3,4	+	-			
Infectious bursal disease.	8	-	8	8		1,2,3,4,5,6	1,2,4		1,2,3,4	+	-			
Infectious Bronchitis.	8	-	8	8		2,4,6	2,3,4		1,2,3,4	+	-			
Infectious laryngeotracheitis	4	-	4	8		2,3,4,5	1,4,		1,2,3,4	+	-			
Chicken anaemia virus	4	-	4	4		2,4,5,6	2,3		1,2,3,4	+	-			
Adeno virus	4	-	4	4		2,3,5	2,4		1,2,3,4	+	-			
Reovirus.	8	-	8	4		2,3,5,6	,1,3		1,2,3,4	+	-			
Tumor viral diseases	20	-	20	8		3,4,6	1,3		1,2,3,4	+	-			

Nervous viral disease	8	-	8	20		2,3,4,5,6	3,4		1,2,3,4	+	-			
Duck viral diseases	10	-	10	8		2,3,4,5,6	1,2,3		1,2,3,4	+	-			
pox virus infection	6	-	6	10		2,3,4,5,6	3		1,2,3,4	+	-			
Clinical examination of viral diseases	-	10	6		10		2	1,4	1,3	-	+			
Postmortem examination	-	12	4		12		2	1,4	1,3	-	+			
Collection and preservation of samples from affected poultry	-	12	6		12		2	1,4	1,4	-	+			
Isolation and identification of different viruses	-	12	6		12		2	1,2,4	1,2	-	+			
Serological tests for viruses	-	20	6		20		2	3,4	1,2,3	-	+			
Molecular diagnosis	-	12	6		12		2	3,4	1,3,4	-	+			
<b>Total</b>			<b>176</b>	<b>88</b>	<b>88</b>									