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

Viral Diseases of Poultry

(762P)

PhD COURSE SPECIFICATION

A. BASIC INFORMATION

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

2- Professional information

1- Overall aims of course

Upon successful completion of the course, the student will be able to:

- ❖ Identify the different viral diseases affecting different birds species.
- ❖ Develop approaches for prevention, diagnosis and treatment of viral diseases.

2- Intended learning outcomes of course (ILOs)

a-Knowledge and understanding

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

a.1. List the most common viral disease affecting poultry.
a.2. State the frequency and distribution of viral disease and factors determine of such distribution.
a.3. Illustrate the impact of the viral diseases on the poultry public health and community
a.4. a.4. Explain the characteristics clinicopathological lesion of viral disease of poultry and rabbits
a.5. Clarify the vaccination programs against viral diseases.
a.6. Recognize the different methods for diagnosis and treatment of viral diseases
a.7. List factors affecting severity and occurrence of viral diseases.

b-Intellectual skills

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

b.1. Select and collate appropriate causes, epidemiological pattern, clinico-pathological features of viral diseases of poultry.
b.2. Evaluate primary and secondary evidence and arguments of the frequency and factors detriment of the distribution of viral disease.
b.3. Design the biosecurity and vaccination programs to control viral diseases.
b.4. Select the most suitable and economic way of treatment and prevention of viral disease in poultry .

c-Professional and practical skills

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

c.1. Able to perform clinical assessment for viral diseases of poultry.

c.2. Able to explain the principle and limitations of a range of more advanced practical techniques.

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.

c.4. Use appropriate basic laboratory equipment safely and efficiently.

d-General and transferable skill

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

- **d.1.** Work effectively as part of a team.
- **d.2.** Efficiently make use of library facilities .
- **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 laryngeotracheitis	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**
Total	**88**	**88**	**176**

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
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:

	K.U (a)	**I.S (b)**	**P.P.S (c)**	**G.S (d)**
Written exam	1,2,3,4,5,6,7	1,2,3,4		

Practical exam			1,2,3,4	
Oral exam	1,2,3,4,5,6,7	1,2,3,4		
Student activities				1-4

C. WEIGHT OF ASSESSMENTS:

Assessment	Allocated Mark	Evidence
Final written exam	**50%**	Marked and signed written paper
Practical exam	**20%**	Marked and signed practical exam paper
Oral exam	**20%**	Signed list of oral exam marks
Student assignments	**10%**	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**/dis**viral**.htm

#www.amer**poultry**assn.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)	I.S (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**		1,2,3,4,5,6,7	1,3,4		1,2,3,4	+	-			
Infectious bursal disease.	**8**	-	**8**	**8**		1,2,3,4,5,6,7	1,2,4		1,2,3,4	+	-			
Infectious Bronchitis.	**8**	-	**8**	**8**		2,4,6	2,3,4		1,2,3,4	+	-			
Infectious laryngotracheitis	**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**		2,3,5,6,7	,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**		2,3,4,5,6,7	3,4		1,2,3,4	+	-			
Duck viral diseases	**10**	-	6**10**	**8**		2,3,4,5,6,7	1,2,3		1,2,3,4	+	-			
pox virus infection	**6**	-	**6**	**10**		2,3,4,5,6.7	3		1,2,3,4	+	-			
Clinical examination of viral diseases	-	20	20		20		**2**	1,4	1,3	-	+			
Postmortem examination	-	12	12		12		**2**	1,4	1,3	-	+			
Collection and preservation of samples from affected poultry	-	12	12		12		**2**	1,4	1,4	-	+			
Isolation and identification of different viruses	-	12	12		12		2	1,2,4	1,2	-	+			
Serological tests for viruses	-	20	20		20		2	3,4	1,2,3	-	+			
Molecular diagnosis	-	12	6		12		2	3,4	1,3,4	-	+			
Total	88	88	176	88	88									