



# Laboratory diagnosis of poultry diseases (768p)

## PhD COURSE SPECIFICATION

### A. BASIC INFORMATION

<b>University:</b>	<b>University of Sadat City</b>
<b>Faculty:</b>	<b>Veterinary Medicine</b>
<b>Program on which the course is given:</b>	<b>PhD in Veterinary Medical Sciences (poultry and rabbits diseases )</b>
<b>Department offering the Course:</b>	<b>Poultry and Rabbits diseases</b>
<b>Course code:</b>	<b>768 P</b>
<b>Course title:</b>	<b>Laboratory diagnosis of poultry diseases</b>
<b>Lecture (hr/week):</b>	<b>2</b>
<b>Practical (hr/week):</b>	<b>2</b>
<b>Course coordinator:</b>	<b>Dr. Alaa Gaballa</b>

## 2- Professional information

### 1- Overall aims of course

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

- ❖ .the candidates must know the laboratory diagnosis of viral ,bacterial Mycotic, parasitic and nutritional deficiency diseases of poultry .

### 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. Discuss different diseases affecting poultry, and their laboratory findings and investigation.
- a.2. Recognize the epidemiology of poultry and rabbits diseases.
- a.3. Discuss various organ dysfunctions; their etiology, and associated laboratory findings..
- a.4. Recognize the different methods for diagnosis poultry diseases.
- a.5. . List factors affecting samples taking time poultry diseases.

#### b-Intellectual skills

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

- b.1 Select the appropriate tests used for screening, diagnosis, and follow up of various disease states.
- b.2. Interpret the abnormal laboratory results on the basis of pathological mechanisms.
- b.3. Integrate clinical and laboratory findings for proper interpretation for correct medical decision.
- b.4. Correlate between signs and symptoms of some diseases with the presence of certain laboratory abnormal findings.

#### c-Professional and practical skills

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

- c.1. Collect blood for routine serological tests and master the techniques of specimen collection, handling and processing.
- c.2. Interpret the results of biochemical laboratory tests and integrate the results with clinical information.
- c.3. Carry out the egg inoculation ,media preparation for isolation causative agent
- C4. Able to perform some of molecular and serological tests used for detection of viral antigens or antibodies in clinical samples and analyze results.
- c.5. 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
Laboratory diagnosis of Respiratory viral diseases	8	-	4
Laboratory Diagnosis of Immunosuppressive viral diseases	8	-	4
Laboratory Diagnosis of Tumor viral diseases	8	-	4
Laboratory Diagnosis of Nervous viral disease and pox virus infection	8	-	8
Laboratory Diagnosis of Duck viral diseases	8	-	8
Laboratory Diagnosis of bacterial diseases	8	-	8
Laboratory Diagnosis of parasitic diseases	8	-	4
Laboratory Diagnosis of Mycotic diseases	8	-	8
Laboratory Diagnosis of rabbits viral diseases	4	-	4
Laboratory Diagnosis rabbits bacterial diseases	8	-	8
Laboratory Diagnosis rabbits parasitic diseases	4	-	4
Laboratory Diagnosis nutritional disorders diseases	8	-	4
Clinical examination of poultry diseases	-	10	10
Postmortem examination	-	12	12
Collection and preservation of samples from affected poultry	-	12	12
Isolation and identification of different poultry diseases	-	12	12
Serological tests for poultry diseases	-	20	20
Sensitivity test and egg inoculation	-	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:**

	<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	1,2,3,4		
Practical exam			1,2,3,4,5	
Oral exam	2,3	1,2,3		
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**

- 1-Diseases of poultry 12<sup>th</sup> 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

### 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

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

#[www.afowlshome.com/diseases/disease6.html](http://www.afowlshome.com/diseases/disease6.html)

**Course coordinator:**

**Dr.Alaa abdel razik gaballa**

**Head of department:**

**Prof. Dr. Shaaban Gadallah**

### 768MVSc 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
Laboratory diagnosis of Respiratory viral diseases	8	-	8	8		1,2,3,4,5	1,2,3,4		1,2,3,4	+	-			
Laboratory Diagnosis of Immunosuppressive viral diseases	8	-	8	8		2,3,4,5	2,3,4		1,2,3,4	+	-			
Laboratory Diagnosis of Tumor viral diseases	8	-	8	8		3,4,5	1,2,3		1,2,3,4	+	-			
Laboratory Diagnosis of Nervous viral disease and pox virus infection	8	-	8	8		1,2,4,5	1,3,4		1,2,3,4	+	-			
Laboratory Diagnosis of Duck viral diseases	8	-	8	8		2,3,4	1,3		1,2,3,4	+	-			

Laboratory Diagnosis of bacterial diseases	8	-	8	8		2,3,4,5	2,3		1,2,3,4	+	-			
Laboratory Diagnosis of parasitic diseases	8	-	8	8		2,3,5	2,3,4		1,2,3,4	+	-			
Laboratory Diagnosis of Mycotic diseases	8	-	8	8		1,4,5	1,3		1,2,3,4	+	-			
Laboratory Diagnosis of rabbits viral diseases	4	-	4	4		1,4,5	2,3		1,2,3,4	+	-			
Laboratory Diagnosis rabbits bacterial diseases	8	-	8	8		1,4,5	1,3,4		1,2,3,4	+	-			
Laboratory Diagnosis rabbits parasitic diseases	4	-	4	4		1,2,4	1,2,3		1,2,3,4	+	-			
Laboratory Diagnosis nutritional disorders diseases	8	-	8	8		1,4,5	1,2,3		1,2,3,4	+	-			
Clinical examination of bacterial diseases	-	10	10		10		1,2	1,2	1,3	-	+			
Postmortem examination	-	12	12		12		3	1,2	1,3	-	+			
Collection and preservation of samples from affected poultry	-	12	12		12		3	1,2,3	1,3	-	+			

Isolation and identification of different bacteria	-	12	12		12		3	2,3,5	1,3	-	+			
Serological tests for bacteria	-	20	20		20		1,3	2,4,5	1,3	-	+			
Sensitivity test	-	12	12		12			3,4,5	1,3	-	+			
Total			176	88	88									