Nutritional Deficiency Diseases of Poultry (764P)

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:	**764P**
Course title:	**Nutritional Deficiency Diseases of Poultry**
Lecture (hr/week):	**1**
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 Nutritional deficiency diseases affecting different birds species.
- ❖ Develop approaches for prevention, diagnosis and treatment of Nutritional deficiency 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.** Define the different Nutritional deficiency diseases concepts.
- **a.2.** Explain the characteristics clinicopathological lesion of Nutritional deficiency diseases.
- **a.3.** Recognize the different methods for diagnosis and treatment of Nutritional deficiency diseases
- **a.4.** List factors affecting severity and occurrence of Nutritional deficiency diseases.

b-Intellectual skills

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

- **b.1.** Analysis reasons and sources of Nutritional deficiency diseases.
- **b.2.** Apply the proper approach for diagnosis and differential diagnosis.
- **b.3.** Design the biosecurity and feeding programs to control Nutritional deficiency diseases.
- **b.4.** Select the most suitable and economic way of treatment and prevention of Nutritional deficiency diseases in poultry.

c-Professional and practical skills

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

- **c.1.** Carry out clinical and postmortem examination
- **c.2.** Carry out sampling, labeling and preservation of samples.
- **c.3.** Use appropriate basic laboratory equipment safely and efficiently.
- **c.4.** Evaluate the requirements of drug dose to control of different nutritional deficiency diseases.

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**
Vitamin A deficiency	**5**	-	**5**
Vitamin E deficiency	**5**	-	**5**
Vitamin C deficiency	**5**	-	**5**
Vitamin Kdeficiency	**3**	-	**3**
Vitamin D deficiency	**3**	-	**3**
Vitamin B 1 deficiency	**3**	-	**3**
Calcium deficiency	**3**	-	**3**
Phosphorus deficiency	**4**	-	**4**
Zinc deficiency	**4**	-	**4**
Amino acids deficiency	**4**	-	**4**
Vitamin B2,6,12 deficiency	**5**	-	**5**
Clinical examination of nutritional deficiency diseases	-	**20**	**20**
Postmortem examination	-	**24**	**24**
Collection and preservation of samples from affected poultry	-	**22**	**22**
Differential diagnosis of poultry nutritional disease	-	**22**	**22**
Total	**44**	**88**	**132**

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. 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	1,2,3,4		
Practical exam			1,2,3,4	
Oral exam	1,2,3,4	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 poultry 12th 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

3-**poultry diseases, diagnosis and treatment**

Edited by Sushovan ray 1994

6.3. Journals , Websites ……..etc

1- Poultry Science Journal

2- British poultry science Journal

2- Poultry Disease Journal

Website

- Univetmedicine.com
- www.the poultry site.com
- www.poultry keeper.com

Course coordinator:

Dr.Alaa Abdelrazik Gaballa

Head of department:

Prof. Dr. Shaaban Gadallah

761MVSc 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
Vitamin A deficiency	5	-	5	5		1,2,3,4	1,2,3		1,2,3,4	+	-			
Vitamin E deficiency	5	-	5	5		2,3,4	2,3,		1,2,3,4	+	-			
Vitamin C deficiency	5	-	5	5		2,3,4	3,4		1,2,3,4	+	-			
Vitamin Kdeficiency	3	-	3	3		1,2,4,6	1,2,3		1,2,3,4	+	-			
Vitamin D deficiency	3	-	3	3		2,34	1,3		1,2,3,4	+	-			
Vitamin B1 deficiency	3	-	3	3		2,4,4	2,3		1,2,3,4	+	-			
Calcium deficiency	3	-	3	3		2,3,4	1,2,3		1,2,3,4	+	-			
Phosphorus deficiency	4	-	4	4		1,3,4	2,3		1,2,3,4	+	-			
Zinc deficiency	4	-	4	4		1,4,6	1,23		1,2,3,4	+	-			
Amino acids deficiency	4	-	4	4		1,4,3	1,2,33		1,2,3,4	+	-			
Vitamin B2,6,12 deficiency	5	-	5	5		1,4,3	1,2,3		1,2,3,4	+	-			
Clinical examination of nutritional deficiency diseases	-	20	20		20			1	1,3	-	+			
Postmortem examination	-	24	24		24		2	1	1,3	-	+			
Collection and preservation of samples from affected poultry	-	22	22		22		2	2,3	1,3	-	+			
Differential diagnosis of poultry nutritional disease	-	22	22		22		2	2,3,4	1,3	-	+			

Total			**132**	**44**	**88**									