



Course specification

1-Basic information

Course title :	Diseases of pet animals
Program title:	Diploma of pet animals
Contact hours/ week	4 hours per week (2 theoretical and 2 practical)
Approval Date	

2-Professional information

Overall aims of course:

This course aims to:

1. Employ the acquired knowledge of infectious diseases of pets together with other related topics.
2. Master different professional skills and techniques in diagnosis, prevention and control of infectious diseases of pets.
3. Deal with disease problems of pet animal infectious diseases.
4. Support the basic knowledge about etiology, epizootiology, clinical signs, diagnosis and control measures of pet animal diseases.
5. Apply and demonstrate an understanding of basic control management procedures and protocols including isolation, quarantine and disinfection.
6. Gain skills and ability to deal with field differential diagnosis, treatment and control of diseases of pet animals.

3- Intended learning outcomes of course (ILOs)

A-Knowledge and understanding:

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

- a1- Identify the basic knowledge about etiological agents and pathogenesis of different diseases of pet animals..
- a2- list the major disease problems concerned with infectious diseases of pet animals.
- a3- Mention the basic knowledge of treatment and control measures of different diseases of pet animals.
- a4- Identify the important aspects regarding the vaccination schedule of different diseases of pet animals.

B- Intellectual skills

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

- b1- analyze the field problems to reach a preliminary diagnosis.
- b2- suggest the suitable solutions during epizootics .
- b3- use the basic information for analysis of epizootics of pet animals.
- b4 -Enhance the ability to differentiate between diseases of pet animals.



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C-Professional and practical skills

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

- c1- Perform the different methods and techniques of clinical examination.
- c2- Perform the different sampling methods .
- c3- Acquire the experience of planning of a control programs.
- c4- Plan and apply the different methods of control programs.

D-General and transferable skills

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

- d1-Enhance the skills of problem definition and how to deal with it.
- d2-Enhance skills of epizootiological data analysis, and clinical and laboratory examinations.
- d3- Enhance the experience of taking history in infected farms and increase the ability of organizing control programs.
- d4- Collect the data of diseased animals in an informative and suitable manner.

4-Topics and contents

Course	Topic	No. of hours	Lectures	Practical
	Introduction of infectious diseases of pets.	24	12	12
	Diseases of newly born pet animals	24	12	12
	Infectious diseases causing digestive disorders.	24	12	12
	Infectious diseases causing respiratory manifestation.	24	12	12
	Infectious diseases causing skin affections	24	12	12
	Parasitic diseases of pet animals	24	12	12
	Total	144	72	72

5-Teaching and learning methods

5.1- Lectures and oral presentations

5.2- Clinical sections.

5.3- The use of multimedia aids e.g slide projector, data show, video tapes.

6-Student assessment

6.1. Assessments methods:

Method	Matrix alignment of the measured ILOs/ Assessments methods			
	K&U	I.S	P&P.S	G.S



Course specification

Final Exam	a1- a2- a3-a4	b1- b2- b3-b4	c4	
Practical Exam		b1	c4	d1
Oral Exam	a1- a2- a3- a4	b1- b2- b3- b4-		

6.2. Assessment schedules/semester:

Method	Week(s)
Writing exam	52 Managed by Faculty administration
Practical exam	52 Managed by Department administration
Oral exam	52 Managed by Department administration
Student activities	Along the course

6.3. Weight of assessments:

Assessment	Weight of assessment
Writing exam	50%
Practical exam	25%
Oral exam	25%
Student activities	-
Total	100%

7- List of references

7.1. Notes and books

- Infectious diseases of domestic animals (2004/1588) by H.I.Hosein (2015) 3th Ed.

7.2. Essential books:

- Textbook of Veterinary Internal Medicine: Diseases of the Cat and Dog. Stephen J. Ettinger 1905

- Veterinary medicine 7th ed (A text book of the diseases of cattle, sheep, pigs, goats and horses) 1983.

- A color atlas of small animal dermatology 1985

7.3. Recommended texts

- The Merck veterinary manual 9th 2005

7.4. Journals, Websitesetc

Journals:

Journal of Exotic Pet Medicine - Elsevier

Journal of Exotic Pet Medicine

Journal of Pet Animal Nutrition - J-Stage



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Journal of Veterinary Science
Journal of Veterinary Diagnostic Investigation

Websites:

- 1-www.google.com
- 2-www.OIE
- 3-www.FAO
- 4-www.Canine web sites

Course Coordinators
Reda Rouby

Head of Department Dr. Sherin
Prof. Dr. Hosein Abd Al Aal



Course specification

Topic	Week	Intended learning outcomes of course (ILOs)			
		K&U (a)	I.S (b)	P.P.S (c)	G.T.S (d)
Introduction of infectious diseases of pets.	1-6	a1,a2			
Diseases of newly born pet animals	7-11	a1- a2- a3-a4	b1-b2- b3- b4		d1- d2 d3
Infectious diseases causing digestive disorders.	12-16	a1- a2- a3-a4	b1-b2- b3- b4		
Infectious diseases causing respiratory manifestation.	17-21	a1- a2- a3	b1-b2- b3- b4	c2, c4	d3, d4
Infectious diseases causing skin affections	22-26	a1- a2- a3- a4	b3-b4	c2	
Parasitic diseases of pet animals	27-36	a1- a2	b1-b2- b3		



Beni-Suef University
Faculty of Veterinary Medicine

Course Specification of Postgraduate

1-Basic information

Course Code:	D12-F
Course title :	Clinical Pharmacology
Program title:	Diploma of birds and pet animals
Contact hours/ week	2 hours/ week, (1 Lect./week, 1 Practical/week)
Approval Date	2017-2018

2-Professional information

Overall aims of course:

This course aims to:

By the end of this course the student able to:

- 1 - Recognize different problems and diseases affecting birds and pet animals
- 2-Choose the correct drugs for treatment certain diseases
- 3-Calculate the correct doses of different drugs.
- 4-Choose the correct route of drug administration.
- 5-Set the side effect and toxicity of different drugs and treat them.

3- Intended learning outcomes of course (ILOs)

a- Knowledge and understanding:

By the end of this course the student should be able to acquire specific knowledge in the discipline of clinical pharmacology including:

- a1-Set drug effects in various species.
- a2- Distinguish pharmacokinetic and pharmacodynamics of different drugs.
- a3- Recognize therapeutic uses, side effects and toxicity of different drugs.

b-Intellectual skills

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

- b1- Select the appropriate methods for determination of the drug actions, mechanism of action, kinetics, side effects and toxicity.
- b2- Differentiate between the effects of different drugs act on body systems.
- b3- Choose suitable drugs for treatment certain cases suffering from veterinary diseases.
- b4- Creates a good planning technique for performing and analysis of drug bioassays.

C- Professional and practical skills

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

- c1- Produce the drug forms necessary for treatment certain diseases.
- c2- Write efficiently prescriptions for treating diseases in birds and pet animals.
- c3- Analyze factors that leads to failure of drug treatments.
- c4- Assess pharmacological effects of drugs on laboratory animals as well as isolated tissue preparations.

d- General and transferable skills

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



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- d1- Communication with their professors and staff members.
 d2- Utilize different available resources for efficient obtaining of knowledge and information.
 d3- Lead a team work in a certain professional task.
 d4- Own continuous connection with drug companies, pharmacists and the friends in the career.

4-Topics and contents

Course	Topic	No. of hours	Lectures	Practical
(1Lec. h./week, 1 Pract h./week) Diploma of birds and pet animals	Introduction	2	2	-
	Pharmacokinetic review	6	2	4
	Dose response relationship	2	2	-
	Pharmacodynamics review	4	2	2
	Factors affecting drug response	2	2	-
	Antiseptic and disinfectants	14	2	12
	Antibiotics	8	6	2
	Sulphonamides and other antimicrobials	5	3	2
	Anthelmintic drugs	6	4	2
	Antiprotozoal drugs	6	4	2
	Anticoccidial drugs	5	3	2
	Antimycotic drugs	8	2	6
	Growth promoters	4	2	2
Total		72	36	36

5-Teaching and learning methods

- 5.1- Lectures
 5.2- Self learning by preparing essays and presentations (computer researches and faculty library)
 5.3- Practical (models, samples of.....).

7-Student assessment

7.1. Assessments methods:

Method	Matrix alignment of the measured ILOs/ Assessments methods			
	K&U	I.S	P&P.S	G.S
Written Exam	a1,a2,a3			
Practical Exam	a1,a2,a3	b1,b2,b3,b4	c1,c2,c3,c4	d3
Oral Exam	a1,a2,a3	b1,b2,b3,b4		d3

7.2. Assessment schedules



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Method	Week(s)
Practical exams	During the last month
written exams	During the last month
Oral Exam	During the last month

7.3. Weight of assessments

Assessment	Weight of assessment
Practical exams	25 %
written exams	50 %
Oral Exam	25 %
Total	100 %

8- List of references

8.1. Notes and books

Departmental notes on:

* Notes of pharmacology (part I and part II) by staff member.

* Note of practical pharmacology

* Basis of pharmacology by Prof. Dr. Mohamed Abd Allah Tohamy (2015/25136).

8.2. Essential books:

- *(Present in library of Faculty of Veterinary Medicine, Beni-Suef University)*

8.3. Recommended texts:

-- *(Present in library of Faculty of Veterinary Medicine, Beni-Suef University)*

***Nicholas H. Booth and E. Mcdonald (2005):**

5th Edition, Jones Veterinary Pharmacology and Therapeutics (2005)

***Robert L. Bill (2006):**

3rd Edition, Clinical Pharmacology and Therapeutics for the Veterinary Technician

***Satish K. Garg (2006):** 1st Edition-Reprint, Veterinary Toxicology

Norman Holland and Michael Patrick Adams (2007):

2nd Edition, Core Concepts In Pharmacology

8.4. Journals, Websitesetc

Journals:

*The Science and Practice of Pharmacy

*The Pharmacological Basis of Therapeutics

*Journal of Antimicrobial Chemotherapy

*Journal of Antibiotics

Websites:

<http://www.sciencedirect.com/science..>

ncbi.nlm.nih.gov/entrez/query.fcgi?...

Course Coordinators
Dr. Abeer Mohamed Radi

Head of Department
Prof. Dr. Mohamed Abd Allah Tohamy



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	Topics	Week	Intended learning outcomes of course (ILOs)			
			K and U (a)	I.S (b)	P. P.S. (c)	G.T.S (d)
1	Introduction	1, 2	a1	b1,b4	c4	d1:d4
2	Pharmacokinetic review	3, 4	a2	b1,b4	c4	d1:d4
3	Dose response relationship	5, 6	a1	b1,b4	c4	d1:d4
4	Pharmacodynamics review	7,8	a2	b2-b4	c4	d1:d4
5	Factors affecting drug response	9,10	a1	b1-b4	c4	d1:d4
6	Antiseptic and disinfectants	11,12	a1,a2- a3	b2-b3	c1,c2-c3	d1:d4
7	Antibiotics	13,14,15,16,17,18	a1,a2- a3	b2-b3	c1,c2-c3	d1:d4
8	Sulphonamides and other antimicrobials	19,20,21	a1,a2- a3	b2-b3	c1,c2-c3	d1:d4
9	Anthelmintic drugs	22,23,24, 25	a1,a2- a3	b2-b3	c1,c2-c3	d1:d4
10	Antiprotozoal drugs	26,27,28, 29	a1,a2- a3	b2-b3	c1,c2-c3	d1:d4
11	Anticoccidial drugs	30,31,32	a1,a2- a3	b2-b3	c1,c2-c3	d1:d4
12	Antimycotic drugs	33,34	a1,a2- a3	b2-b3	c1,c2-c3	d1:d4
13	Growth promoters	35,36	a1,a2- a3	b2-b3	c1,c2-c3	d1:d4



Beni Suef University
Faculty of Veterinary Medicine

Beni-Suef University
Faculty of Veterinary Medicine
Department of Nutrition and Clinical nutrition

Course Specification

1- Basic information:		
Code No.: D12-B	Course title: Management and Nutrition of Birds and Pet Animals	Academic Year: 1 st
Teaching Hours: Lecture: 1 Practical: 1 Total: 2		Specialization: Postgraduate Diploma of Birds and Pet Animals

2- Overall aims of the Course:

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

- ❖ Apply acquired scientific knowledge in the field of pet animals and ornamental birds nutritional requirements.
- ❖ Detect the current problems of pet animals and ornamental bird's nutrition.
- ❖ Apply all professional skills and use the appropriate technological means in formulation of pet animals and ornamental birds' diets.
- ❖ Communicate effectively and lead teamwork efficiently.
- ❖ Take decisions using the available information.
- ❖ Effectively use the available facilities and resources.
- ❖ Aware of his/her role in community development and environmental conservation in the area of pet animal's ornamental birds' feeding.
- ❖ Commit the moral and legal rules of ornamental birds' clinician.
- ❖ Aware the importance of self development and continuous learning in the field of ornamental birds' diseases.

3- Intended Learning Outcomes:

- a- Knowledge and Understanding **By successful completion of the course, the student should be able to:**
- a1. Know information about pet animals and ornamental birds' species nutrition.
 - a2. Outline specialized theories and knowledge in the field of pet animals and ornamental birds' nutrition and related sciences.
 - a3. Identify the legal and moral rules in practices targeting identification and treatment of pet animals and ornamental birds' nutritional disorders.
 - a4. Understand different management systems and practices in the field of pet animals and ornamental birds.
 - a5. Underline the role of his/her professional practices in community development and environmental conservation.
 - a6. Describe pet animals and ornamental birds' nutritional problems

prevention and control measures and the role of each in keeping healthy environment, protecting human health and developing the surrounding community.

- b- Intellectual Skills **By successful completion of the course, the student should be able to:**
- b1. Detect and analyze problems affecting the welfare of pet animals and ornamental birds and arrange them according to their priorities.
 - b2. Suggest the appropriate solutions for field problems related to pet animals and ornamental bird's nutrition.
 - b3. Make scientific reading and analysis of research papers and topics related to pet animals and ornamental birds' requirements.
 - b4. Assess different risk factors for each practice related to diagnosis and treatment of pet animals and ornamental birds' nutritional disorders.
 - b5. Take decisions using the available information.
 - b6. Plan for diagnostic scheme for disorders of pet animals and ornamental birds.
- c- Professional and Practical Skills: **By successful completion of the course, the student should be able to:**
- c1. Apply different professional skills and techniques in analysis of pet animals and ornamental birds' feeds.
 - c2. Prepare a sheet for field case history and write a diagnostic report.
 - c3. Calculation of nutritional requirements and using tables in rations formulation.
- d- General and Transferable Skills: **By successful completion of the course, the student should be able to:**
- d1. Communicate effectively using different means.
 - d2. Properly use the information technologies for development of his/her professional abilities.
 - d3. Assess him/her to learn how to detect his/her learning requirements.
 - d4. Use different facilities for gaining knowledge and information.
 - d5. Learn how to work effectively as part of a team properly manages the time.
 - d6. Lead teamwork effectively.
 - d7. Understand the significance and means of continuous self learning.

4- Course Contents:

Week	Course description	Total (hr)	Lectures (hr)	Practical (hr)
1-4	Animal nutrition fundamentals	4	4	-
	-Composition of the animal body and its food			
	-Water and its metabolism			
	-Carbohydrates and their metabolism			
	-Proteins and their metabolism			
	- Lipids and their metabolism.			

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5-7	- Minerals - Essential macroelements - Essential microelements	3	3	-
8-11	Vitamins - Vitamin and animal health - Fat-soluble vitamins - Water-soluble vitamins	4	4	-
12-13	Feed intake and factors affecting	2	2	-
14-16	Digestion & absorption -Digestibility of feeds	3	3	-
17-20	Feeding standards and nutritional requirements for: -maintenance -growth -fattening -reproduction and lactation -work production -wool production	4	4	-
21-24	Pet animals and ornamental birds feeding- -Nutritional requirements -Common feedstuffs used	4	4	-
25-28	Feeding programs - Ration formulation	4	4	-
29-31	Feed additives- -Introduction	3	3	-
32-36	-Nutritional feed additives -Nutritional feed additives	5	5	-
1-4	- Nutrition terms -Concentrates as energy sources & deleterious factors	8	-	8
5-8	Plant protein sources & deleterious factors	8	-	8
9-13	-Animal protein sources and deleterious factors -Forage and roughage	10	-	10
14-17	-Feed processing and manufacture	8	-	8
17-20	Ration formulation for lab animals	8	-	8
21-24	-Feedstuffs analyses -Physical inspection	8	-	8
25-27	Microscopical examination -Chemical analyses	6	-	6

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28-29	Using standard feed analyses tables	4	-	4
30-32	Animal feed safety and feed manufacturing -Feed contaminants and its sources	6	-	6
33-34	Environmental factors inducing feed deterioration -Mycotoxins and its importance -Pesticides	4	-	4
34-36	Heavy metal -Feed manufacturing quality assurance and its monitoring	4	-	4
Total		108	36	72

5- Teaching and Learning Methods:	<ul style="list-style-type: none"> • Lectures: Depends on the sharing efforts of the students and supported with macromedia and multimedia aids. • Practical sections: <ul style="list-style-type: none"> - Examination of feedstuffs samples physically. - Laboratory rations formulation using suitable methods. - Chemical analysis of feedstuffs. • Self learning: Electronic learning, Seminars, scientific search on related websites, international, national and local journals, related books in faculty library. • Assays and reviews • Discussion groups 		
6- Teaching and Learning Methods for Handicapped:	Not applicable		
7- Students assessment:			
Methods of assessments:	Schedule	Weighing (degrees)	Intended learning outcomes
a) Written exam by the end of 1 st year	Week: 37, 36, 39	50	a1 to a6 b1 to b6
b) Practical exam by the end of 1 st year	Week: 36	30	a1 to a6 b1 to b6 c1 to c3

<p>c) Oral exam by the end of 1st year</p>	<p>Week: 37, 38, 39</p>	<p>20</p>	<p>a1 to a6 b1 to b6 c1 to c3 d1 to d7</p>
<p>8- List of References:</p>			
<p>a- Course notes:</p>	<p>- Textbook of Animal and Poultry Nutrition – part 1 Practical of feedstuffs and ration formulation – part 1 Textbook of Animal and Poultry Nutrition – part 2 Practical of feedstuffs and ration formulation – part 2</p>		
<p>b- Essential books:</p>	<p>a- McDonald, P.,R.A .Edwards and J.F.D. Greenhalgh (1987} , Animal Nutrition, 4th edition . b- Cheeke , P.R.(1991): Applied Animal Nutrition, Feeds and Feeding. C- Pond, W. G., D.C. Church, and K .R. Pond (1995): Basic Animal Nutrition and Feeding, 4th edition. d- Gillespie, J.R.(1987): Animal Nutrition and Feeding. e- Church, D .C. (1991): Livestock Feeds and Feeding 3rd edition.</p>		
<p>c- Recommended books</p>	<p>a- Cheeke, P.R. (1987): Rabbit Feeding and Nutrition. b- National Research Council (1988): Nutrient Requirements of lab animals, 6th rev .ed. Washington, D.C.: National Academy of Sciences. c- National Research Council (1985): Nutrient Requirements of Sheep, 6th rev. ed. Washington, D.C.: National Academy of Sciences. d- National Research Council (1996): Nutrient Requirements of Beef cattle, 7th rev. ed. Washington, D.C.: National Academy of Sciences.</p>		

d- Periodicals, websites,.....etc	<p>Journals</p> <ul style="list-style-type: none">-Journal of Nutrition-Journal of Animal Science-Journal of Agriculture Science-Nutrition Abstracts and Reviews-Journal of Poultry Science-Journal of small ruminant Nutrition-Veterinary Record-American Journal of veterinary research- Research on veterinary Science <p>Web sites:-www.google.com -www.FAO - www.Sciencedirect.com- www. Net veterinary resources- Agricultural sites - www. veterinary and agricultural web resources, livestock and poultry</p> <hr/>
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Course Coordinator

Name: Dr. Ibrahim M. Ibrahim

Sig. :

Date :

Head of Department

Prof. Dr. Elham Saleh

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Beni-Suef University
Faculty of Veterinary Medicine
Department of Nutrition and Clinical Nutrition

Course title : Diseases of Ornamental Birds
Course code: D12-B

Course Matrix for Achievement of Intended Learning Outcomes

Topics		Wk	Knowledge and Understanding	Intellectual Skills	Practical and Professional Skills	General & Transferable Skills
1	Animal nutrition fundamentals -Composition of the animal body and its food -Water and its metabolism -Carbohydrates and their metabolism -Proteins and their metabolism - Lipids and their metabolism.	1-4	a1, a2, a3, a6	b1,b2,b3,b4,b6	-	d1, d2
2	- Minerals - Essential macroelements - Essential microelements	5-7	a1, a2, a3	b1,b2,b3,b4	-	d1, d2
3	Vitamins - Vitamin and animal health - Fat-soluble vitamins - Water-soluble vitamins	8-11	a1, a2, a3, a6	b1,b2,b3,b4,b6	-	d1, d2, d3
4	Feed intake and factors affecting	12-13	a1, a2, a3	b1,b2,b3,b4	-	d1, d2, d3
5	Digestion & absorption -Digestibility of feeds	14-16	a1, a2, a3, a6	b1,b2,b3,b4,b6	-	d3, d4, d5
6	Feeding standards and nutritional requirements for: -maintenance -growth -fattening -reproduction and lactation -work production -wool production	17-20	a1, a2, a3, a6	b1,b2,b3,b4	-	d2, d3, d4, d5
7	Pet animals and ornamental birds feeding -Nutritional requirements -Common feedstuffs used	21-24	a1, a2, a3, a6	b1,b2,b3,b4,b6	-	d3, d4, d5
8	Feeding programs - Ration formulation	25-28	a4, a5, a6	b1, b2, b5	c1, c2, c3	d2, d4, d5

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9	Feed additives- -Introduction	29-31	a4, a5, a6	b1, b2, b5	c1, c2, c3	d2, d4, d5
10	-Nutritional feed additives -Nutritional feed additives	32-36	a4, a5, a6	b1, b2, b5	c1, c2, c3	d2, d4, d5
11	- Nutrition terms -Concentrates as energy sources & deleterious factors	1-4	a4, a5, a6	b1, b2, b5	c1, c2, c3	d2, d4, d5
12	Plant protein sources & deleterious factors	5-8	a4, a5, a6	b1, b2, b5	c1, c2, c3	d2, d4, d5
13	-Animal protein sources and deleterious factors -Forage and roughage	9-13	a4, a5	b1, b2, b5	c1, c2, c3	d2, d4, d5
14	-Feed processing and manufacture	14-17	a4, a5	b1, b2, b5	c1, c3	d2, d4, d5
15	Ration formulation for lab animals	17-20	a4, a5, a6	b1, b2, b5	c1,c3	d2, d4, d5,d7
16	-Feedstuffs analyses -Physical inspection	21-24	a4, a5, a6	b1, b2, b5	c1, c3	d2, d4, d5,d7
17	Microscopical examination -Chemical analyses	25-27	a4, a5, a6	b1, b2, b5	c1, c3	d2, d4, d5,d7
18	Using standard feed analyses tables	28-29	a4, a5, a6	b1, b2, b5	c1, c3	d2, d4, d5
19	Animal feed safety and feed manufacturing -Feed contaminants and its sources	30-32	a4, a5	b1, b2, b5	c1, c2, c3	d2, d4, d5
20	Environmental factors inducing feed deterioration -Mycotoxins and its importance -Pesticides	33-34	a4, a5, a6	b1, b2, b5	c1, c2, c3	d2, d4, d5
21	Heavy metal -Feed manufacturing quality assurance and its monitoring	34-36	a1, a2, a4	b1	c1, c3, c4	d2, d4, d5
Student activity		Along the course	a1, a2, a3, a4	b1, b2, b3	c3, c4	d1, d2, d3, d4,d7



Course specification of postgraduate

1-Basic information

Course Code:	D12-E
Course title :	Obstetric Course
Program title:	Diploma of Pet Animals and Poultry
Contact hours/ week	4 hours/week (Lecture: 2 - Practical: 2)
Approval Date	

2-Professional information

Overall aims of course:

This course aims to:

- 1- Introducing the academic background and practical experience about the science of obstetrics in Pet Animals.
- 2- Introducing the academic background and practical experience about the science of breeding in poultry.

3- Intended learning outcomes of course (ILOs)

a- Knowledge and understanding:

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

- a.1- Outline Obstetrics in pet animals.
- a.2- Knowledge about the management of Periparturient Pet animals and the its economics
- a.3- Understanding the relationship between successful breeding programs and the profitability of the Pet animals and poultry.
- a.4- Knowledge about diagnosis and control of different forms of dystocia.
- a.5- Outline Breeding in Poultry.

b-Intellectual skills

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

- b-1- Capability for creative thinking for developing of new diagnostic tools for management of pregnant females in pet animals.
- b-2- Identify of cases of infertility and how to treat.
- b-3- Creative thinking for keeping Pregnant dams.
- b- 4- Identify feeding of pregnant and early parturient dams.
- b.5- Identify breeding in poultry.

C- Professional and practical skills

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

- c.1- Obstetrical evaluation.
- c.2- Synchronization of Parturition.
- c.3- Identification of the commercial forms of hormonal treatments.
- c.4- Control of heat stress.
- c.5- Proper nutrition of Pregnant female pet animals.
- c.6- Diagnosis of abortion.
- c.7- Investigation of infertile pet animals.



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- c.8- Hormonal control of the peripartum period.
- c.9- Collection & preservation of diagnostic specimens.
- c.10- Obstetrical manipulations.
- c.11- Breeding in Poultry.

d- General and transferable skills

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

- d.1- Management of a dairy cow project
- d.2- Use of new technological tools for keeping normal fertility in females.
- d.3- Identifying & controlling of forms of dystocia.
- d.4- Capability for written and oral communication with Gynaecology specialists.
- d.5- Group working in the field of private business.

4-Topics and contents

Course	Topic	No. of hours	Lectures	Practical
(Lec. h./week, Pract h./week)	1. Terminology, anatomy of soft and bony birth way in pet animals	4	4	-
	2. Physiology of gestation in Pets	8	8	-
	3. Pathology of gestation arising from the dam	8	8	-
	4. Pathology of gestation arising from the Fetus and the fetal membranes.	8	8	-
	5. Signs of Fetal maturity.	4	4	-
	6. Normal birth.	20	10	10
	7. Dystocia	14	4	10
	8. Physiology of the postpartum period.	4	4	-
	9. Pathology of the postpartum period.	4	4	-
	10. Cesarean section	10	-	10
	11. Fetotomy	10	-	10
	12. Correction of faulty P.P.P.	10	-	10
	13. A scheme for obstetrical examination	6	-	6
	14. Postpartum care of dam and newborn.	6	6	-
	15. Interference in normal birth	12	4	8
	16. Instruments and medications	8	-	8
	17. Breeding of Poultry	8	8	
Total		144	72	72

5-Teaching and learning methods

- 5.1- Lectures (brain storm, discussion) using board, data shows



Course specification of postgraduate

5.2- Self learning by preparing essays and presentations (computer researches and faculty library)

5.3- Practical (models, samples of Slaughter house material, clinical cases).

7-Student assessment

7.1. Assessments methods:

Method	Matrix alignment of the measured ILOs/ Assessments methods			
	K&U	I.S	P&P.S	G.S
Final Exam	a1, a2, a3	b2		d1
Practical Exam		b1, b2, b3	c1, c2, c3	d1
Oral Exam	a1, a2, a3, a4	b1, b2	c2	a4, d2

7.2. Assessment schedules

Method	Week(s)
Practical exams	During 45 th week - 48 th week
Final exams	During 45 th week - 48 th week
Oral Exam	During 45 th week - 48 th week

7.3. Weight of assessments

Assessment	Weight of assessment
Practical exams	25%
Final exams	50%
Oral Exam	25%
total	100%

8- List of references

8.1. Notes and books

Departmental notes on: Theriogenology

8.2. Essential books:

- Veterinary reproduction and obstetrics. 7th Ed. published by Bailer Tindall; London.
- Current therapy in theriogenology, D.A.Morrow.

8.3. Recommended texts

- Applied animal reproduction, H.J.Bearden

8.4. Journals, Websitesetc

Journals:

- J. Animal reproduction & Fertility
- J. Fertility & Sterility
- Theriogenology
- J. Andrologia

Websites:



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Course specification of postgraduate

www.sciencedirect.com

www.pubmed.com

- Google.Com

- Arabvet.com

- [Esarf tripod.com/index.htm](http://Esarf.tripod.com/index.htm)

Course Coordinators

Prof. Dr. Ahmed Gomaa Mohamed

Head of Department

Prof. Dr. Elsayed M. M. Abdel Gawad



Course specification

	Topics	week	Intended learning outcomes of course (ILOs)			
			K and U (a)	I.S (b)	P. P.S. (c)	G.T.S (d)
1.	Terminology, anatomy of soft and bony birth way in pet animals	1 st w- 2 nd w	1,2,3	1,2,3	1,2,3,4	1,2,3,4,5
2.	Physiology of gestation in Pets	3 rd w- 4 th w	1,2,3	1,3	1,2,3,4	1,2,3,4,5
3.	Pathology of gestation arising from the dam	5 th w- 7 th w	1,2	1,2,3	1,2,3	1,2,3,4,5
4.	Pathology of gestation arising from the Fetus and the fetal membranes.	8 th w- 10 th w	1,2	1,2,3	1,2,3	1,2,3,4,5
5.	Signs of Fetal maturity.	11 th w-13 th	1,2,3	1,3	1,2,3,4	1,2,3,4,5
6.	Normal birth.	14 th w-15 th w	1,2,3	1,3	1,2,3,4	1,2,3,4,5
7.	Dystocia	16 th -17 th w	1,2,3	1,3	1,2,3,4	1,2,3,4,5
8.	Physiology of the postpartum period.	18 th w-19 th w	1,2,3	1,3	1,2,3,4	1,2,3,4,5
9.	Pathology of the postpartum period.	20 th w-21 st w	1,2,3	1,3	1,2,3,4	1,2,3,4,5
10	Cesarean section	22 nd w-23 rd	1,2,3	1,3	1,2,3,4	1,2,3,4,5



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		W				
11	Fetotomy	24 th -26 th w	1,2,3	1,3	1,2,3,4	1,2,3,4,5
12	Correction of faulty P.P.P.	27 th w-29 th w	1,2,3	1,3	1,2,3,4	1,2,3,4,5
13	A scheme for obstetrical examination	30 th w-31 st w	1,2,3	1,3	1,2,3,4	1,2,3,4,5
14	Postpartum care of dam and newborn.	32 nd -33 rd w	1,2,3	1,3	1,2,3,4	1,2,3,4,5
15	Interference in normal birth	27 th -31 st w	1,2,3	1,3	1,2,3,4	1,2,3,4,5
16	Instruments and medications	27 th -31 st w	1,2,3	1,3	1,2,3,4	1,2,3,4,5
17	Breeding of Poultry	32 th -36 th w	1,2,3	1,3	1,2,3,4	1,2,3,4,5



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Beni-Suef University

Faculty of Veterinary Medicine

Department of Animal and poultry Management and Wealth Development

**DIPLOMA PROGRAMME SPECIFICATION
2017-2018**

University: Beni- Suef

Faculty: Veterinary medicine

A- Administrative Information

1. Programme title: Diploma of Vet. Med. Sciences (Pet animals and birds)

2. Award/degree: Diploma

3. Department responsible: Department of Animal and poultry Management and Wealth Development

4. Coordinator: **Dr. Fatma Hanafy Sayed Khalil**

6. Date of most recent approval of programme specification by the Faculty Council:

B- Professional Information

1. **Programme aims:** The Diploma programme supports the postgraduate student ability to: 1- study on the advanced management and breeding of pet animals and birds.

2. Diagnoses and treatment of pet animals and birds diseases.

3. Apply surgical operations for them.

2. Intended learning outcomes (ILOs) for programme

Knowledge and understanding:

By the end of the Diploma program, the postgraduate must be able to:

a1- - Enumerate the different management practices applied to the pet animals and birds in their different life stages

a2- list diseases of pet animals and birds.

a3- relate animal surgery to gynecological problems of pet animals and birds.

a4-understand clinical pharmacology in pet animals and birds.

b- Intellectual skills

By the end of the Diploma program, the postgraduate must be able to:

b1- identify normal and abnormal behaviors of pet animals and birds.

b2- explain different methods of management and feeding of pet animals and birds.

b3-recognize cases of pet animals and birds that need urgent surgery.

b4- describe drugs used for treatment of pet animals and birds.

c- Professional and practical skills

By the end of the Diploma program, the postgraduate must be able to:

c1- apply ethical guidelines of management, handling, securing and identification. of pet animals and birds.

c2- use of advanced strategies to feed and learn pet animals and birds.

c3- illustrate doses of drugs for treatment of pet animals and birds.

c4-solve reproduction/ gynecological problems of pet animals and birds.

d- General and transferable skills

By the end of the Diploma program, the postgraduate must be able to:

d1- demonstrate information retrieval and library skills.

d2- demonstrate interpersonal skills and team working ability by the successful completion of collaborative learn assignment and the honors researches projects.

d3- present research finding in oral and written form using appropriate software (e.g., power point , word , excel and data base).

3- Academic standards

* The faculty mission, vision and strategic objective are confirmed to the academic standard. The learning outcomes are inline with the department and the faculty mission.

* Postgraduates NARS (February 2009) Diploma degree chapter issued by national authority for quality assurance and accreditation of education (NAQAAE) and Veterinary medicine post graduate academic standards (ARS) for the faculty of

veterinary medicine, BeniSuef University, BeniSuef, Egypt are selected to confirm the appropriateness of the academic standards .

4 – Curriculum structure and content

5.1) Programme duration: 1years

5.2) Programme structure:

Title	Lecture	Practical	Total
1- Diseases of pet animals	2	2	4
2- Management and nutrition of pet animals and birds	1	1	2
3-Diseases of pet birds	1	2	3
4-Surgery of pet animals	1	2	3
5- Gynecology of pet animals	1	1	2
6-Clinical pharmacology	1	1	2
Total	5	9	16

5- Programme – course ILOS Matrix

Title	a1	a2	a3	a4	b1	b2	b3	b4	c1	c2	c3	c4	c5	d1	d2	d3
1- Management and nutrition of pet animals and birds	x				x	x			x	x				x	x	x
2- Diseases of pet animals		x						x						x	x	x
3-Diseases of pet birds		x						x						x	x	x
4-Surgery of pet animals			x				x	x						x	x	x
5- Gynecology of pet animals			x									x		x	x	x
6-Clinical pharmacology				x				x			x			x	x	x

6-Programme admission requirement

1- Obtaining a bachelor degree in veterinary medicine sciences from one of the Egyptian universities or equivalent degree from another recognized scientific institute with any grade

- 2- The bachelor degree must be obtained at least one year prior to registration
- 3- The applicant must have regular attendance in his courses according to the schedule of the faculty.
- 4- Registration will be during September of each year.

7 - Regulations for progression and programme completion

- 1- registration period is one year for diploma and the applicant not exceed a period of registration for two years.
- 2- the examinations of the diploma are 2 times / year in December & April.
- 3- the faculty council has the right to deprive the applicant from the exam if his attendance courses are less than 75%.
- 4- in case of failure, the exams will be hold 2 times / year and reexamination in all courses each time.

8-System of examination for postgraduate studies as follow:

- Time of written exams, 3 hours for each curriculum have 3 hours or more for theoretical / practical hours/ week. If the curriculum less than 3 hours / week, the time of ex. is 2 hours only.
- The final degree of each curriculum which have 3 hours (theoretical & practical) per week is 100 & less than 3 hours 50 degree & divided into 50 % for written ex. and 50 % for practical and oral ex.

9-Grades of graduation are as follow

Excellent	≥90
Very good	≥ 80
Good	≥70
Pass	≥60
Failed	45 to less than 60 weak
	Less than 45 very weak

The programme specification should have attached to it all course specifications listed in the matrix.

Programme coordinator:

Name.....

Signature..... Date

Head of the Department
Name:
Signature..... Date,



Beni-Suef University
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Course specification of postgraduate

1-Basic information

Course Code:	D12-C
Course title :	Diseases of Ornamental Birds
Program title:	Diploma of Vet. Med. Sciences (Diploma of Pet Animals)
Contact hours/ week	3 hours per week (1 theoretical and 2 practical)
Approval Date	10-01-2017

2-Professional information

Overall aims of course:

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

- 1- Apply acquired scientific knowledge in the field of ornamental birds.
- 2- Detect the current problems of ornamental birds.
- 3- Apply all professional skills and use the appropriate technological means in diagnosis of ornamental birds' diseases.
- 4- Communicate effectively and lead teamwork efficiently.
- 5- Take decisions using the available information.
- 6- Effectively use the available facilities and resources.
- 7- Aware of his/her role in community development and environmental conservation in the area of ornamental birds' diseases.
- 8- Commit the moral and legal rules of ornamental birds' clinician.
- 9- Aware the importance of self development and continuous learning in the field of ornamental birds' diseases.

3- Intended learning outcomes of course (ILOs)

a- Knowledge and understanding:

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

- a.1. Know information about ornamental birds' species and diseases.
- a.2. Outline specialized theories and knowledge in the field of ornamental birds and related sciences.
- a.3. Identify the legal and moral rules in practices targeting diagnosis and treatment of ornamental birds' diseases.
- a.4. Understand different management systems and practices in the field of ornamental birds.
- a.5. Underline the role of his/her professional practices in community development and environmental conservation.
- a.6. Describe ornamental birds' disease prevention and control measures and the role of each in keeping healthy environment, protecting human health and developing the surrounding community



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Course specification of postgraduate

b-Intellectual skills

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

- b.1. Detect and analyze problems affecting the welfare of and ornamental birds and arrange them according to their priorities.
- b.2. Suggest the appropriate solutions for field problems related to ornamental birds.
- b.3. Make scientific reading and analysis of research papers and topics related to ornamental birds' diseases.
- b.4. Assess different risk factors for each practice related to diagnosis and treatment of ornamental birds' disorders.
- b.5. Take decisions using the available information.
- b.6. Plan for diagnostic scheme for disorders of ornamental birds

C- Professional and practical skills

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

- c.1. Apply different professional skills and techniques in diagnosis of ornamental birds' diseases.
- c.2. Prepare a sheet for field case history and write a diagnostic report.
- c.3. Medicate and/or vaccinate ornamental birds and apply early disease detection (monitoring) system and the essential bio-security procedures.

d- General and transferable skills

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

- d.1. Communicate effectively using different means.
- d.2. Properly use the information technologies for development of his/her professional abilities.
- d.3. Assess him / her self and learn how to detect his/her learning requirements.
- d.4. Use different facilities for gaining knowledge and information.
- d.5. Learn how to work effectively as part of a team properly manage the time.
- d.6. Lead teamwork effectively.
- d.7. Understand the significance and means of continuous self learning.



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Course specification of postgraduate

4-Topics and contents

Course	Topic	No. of hours	Lectures	Practical
Diseases of Ornamental Birds (Lec. 1h./week, Pract 2h./week)	Different species of ornamental and psittaci birds	2	2	-
	Bacterial diseases of ornamental birds	10	10	-
	Mycotic diseases of ornamental birds	4	4	-
	Viral diseases of ornamental birds	10	10	-
	Parasitic diseases of ornamental birds	3	3	-
	Nutritional diseases of ornamental birds	2	2	-
	Miscellaneous diseases of ornamental birds	2	2	-
	How to handle zoonotic pathogens of avian origin	5	3	2
	Clinical and postmortem examination	6	-	6
	Differential diagnosis	4	-	4
	Bacteriological examination	6	-	6
	Mycotic examination	4	-	4
	Virological examination	6	-	6
	Parasitological examination	4	-	4
	Advanced laboratory techniques	6	-	6
	Slides and clinical specimen	6	-	6
	Bases of surveillance for avian diseases	8	-	8
	Principle of disease prevention and control	6	-	6
	Biosecurity and medication	6	-	6
	Vaccines and vaccination schedules	8	-	8
	Student activities:			
- Writing assays	-	-	-	-
- Internet search	-	-	-	-
Total		108	36	72



Course specification of postgraduate

5-Teaching and learning methods

- 5.1. **Lectures** (brain storm, discussion) using board, data shows supported with macromedia and multimedia aids.
- 5.2. **Practical sections:**
 - Clinical and necropsy examination of diseased and dead samples.
 - Laboratory diagnosis of different poultry and rabbit diseases using suitable methods.
 - Antimicrobial sensitivity testing.
- 5.3. **Self learning:** Electronic learning, seminars, scientific research on related websites, international, national and local journals, related books in faculty library.
- 5.4. **Assays and reviews**
- 5.5. **Discussion groups**

6-Student assessment

6.1. Assessments methods:

Method	Matrix alignment of the measured ILOs/ Assessments methods											
	K&U			I.S			P&P.S			G.S		
Final Exam	a1	a2	a3	b1	b2	b3						
	a4	a5	a6	b4	b5	b6						
Practical Exam	a1	a2	a3	b1	b2	b3	c1	c2	c3			
	a4	a5	a6	b4	b5	b6						
Oral Exam	a1	a2	a3	b1	b2	b3	c1	c2	c3	d1	d2	d3
	a4	a5	a6	b4	b5	b6				d4	d5	d6
										d7		

6.2. Assessment schedules

Method	Week(s)
Writing exam	53-55 Managed by Faculty administration
Practical exam	52 Managed by Department administration
Oral exam	53-55 Managed by Department administration

6.3. Weight of assessments

Assessment	Weight of assessment
Writing exam	50%
Practical exam	25%
Oral exam	25%
Total	100%



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Course specification of postgraduate

7- List of references

7.1. Notes and books

7.2. Essential books:

Diseases of Poultry, 13th ed. Iowa State Univ. Press, Ames. BY John R. Glisson, Larry R. McDougald, Lisa K. Nolan, David L. Suarez, Venugopal Nair and David E. Swayne

7.3. Recommended texts

Laboratory Manual for the Isolation and Identification of Avian Pathogens: BY David E. Swayne, John R. Glisson and Mark W. Jackwood.

7.4. Journals, Websitesetc

Journals:

- Avian diseases
- Avian pathology
- British poultry science
- Veterinary Bulletin
- Veterinary Microbiology

Websites:

- www.poultryhelp.com
- www.thepoultrysite.com
- www.canadianpoultry.com
- www.aaap.net
- www.poultrydiseases.net
- www.poultryconnection.com
- www.worldpoultry.com
- www.sciencedirect.com

Course Coordinators

Dr. Salama Abohamra

Head of Department

Dr Azza A. El-Sawah



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Course specification of postgraduate

Postgraduate students Poultry and rabbit diseases 3 hours / week (Lec. 1hr/wk - Pract. 2hr/wk)	Topics		Week	Intended learning outcomes of course (ILOs)			
				K&U (a)	I.S (b)	P.P.S (c)	G.T.S (d)
	1	Different species of ornamental and psittacin birds	1-2	1, 2, 3, 6	1, 2, 3, 4, 6	-	1, 2, 3, 4, 5, 6, 7
2	Bacterial diseases of ornamental birds	3-12	1, 2, 3	1, 2, 3, 4	-		
3	Mycotic diseases of ornamental birds	13-16	1, 2, 3, 6	1, 2, 3, 4, 6	-		
4	Viral diseases of ornamental birds	17-26	1, 2, 3	1, 2, 3, 4	-		
5	Parasitic diseases of ornamental birds	27-29	1, 2, 3, 6	1, 2, 3, 4, 6	-		
6	Nutritional diseases of ornamental birds	30-31	1, 2, 3, 6	1, 2, 3, 4	-		
7	Miscellaneous diseases of ornamental birds	32-33	1, 2, 3, 6	1, 2, 3, 4, 6	-		
8	How to handle zoonotic pathogens of avian origin	34-36	4, 5, 6	1, 2, 5	1, 2, 3		
9	Clinical and postmortem examination	1-3	4, 5, 6	1, 2, 5	1, 2, 3		
10	Differential diagnosis	4-5	4, 5, 6	1, 2, 5	1, 2, 3		
11	Bacteriological examination	6-8	4, 5, 6	1, 2, 5	1, 2, 3		
12	Mycotic examination	9-10	4, 5, 6	1, 2, 5	1, 2, 3		
13	Virological examination	11-13	4, 5	1, 2, 5	1, 2, 3		
14	Parasitological examination	14-15	4, 5	1, 2, 5	1, 3		
15	Advanced laboratory techniques	16-18	4, 5, 6	1, 2, 5	1, 3		
16	Slides and clinical specimen	19-21	4, 5, 6	1, 2, 5	1, 3		
17	Bases of surveillance for avian diseases	22-25	4, 5, 6	1, 2, 5	1, 3		
18	Principle of disease prevention and control	26-28	4, 5, 6	1, 2, 5	1, 3		
19	Biosecurity and medication	29-31	4, 5	1, 2, 5	1, 2, 3		
20	Vaccines and vaccination schedules	32-35	4, 5, 6	1, 2, 5	1, 2, 3		
Student activity		Along the course	1, 2, 3, 4	1, 2, 3	3		