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 (Wildlife)
2. Award/degree: Diploma
3. Department responsible: Department of Animal and poultry Management and Wealth Development

4. Coordinator: **Dr.FatmaHanafySayedKhalil**
5. Date of approval of programme specification by the Faculty Council:

B- Professional Information
1. Programme aims: The Diplomaprogramme supports the postgraduateprovides scientificstudent the scientific bases of the wildlife management and habitat improvement, in addition toidentifying zoonotic diseases acquired from them and treatment of their diseases; medically and surgically.

2. Intended learning outcomes (ILOs) for programme
a- Knowledge and understanding:

By the end of the Diploma program, the postgraduate must be able to:
al- Identify advanced research techniques used in the field of wildlife management and zoo medicine.
a2-write the dimensions and design of house necessary for zoo animals.

a3-explain the effect of enclosures on the animal behaviour.
a4-understanding of protecting areas planning to outline the managerial policy
a5- identify the zoonotic,infectious and internal diseases in wild animals and birds.

b- Intellectual skills

By the end of the Diploma program, the postgraduate must be able to:
bl-describe symptomsof infectious and internal diseases of wild animals and poultry.
b2- solve gynecological problems of zoo animals.
b3-make a decision based on his/her surgical, gynecological and medicinal information of zoo animals.
b4-recognize physiological parameters of wild animals and birds.

c- Professional and practical skills

By the end of the Diploma program, the postgraduate must be able to:
cl-apply methods of handling and securing wild animals to apply the most common intervention in zoo.
c2-apply distinguished veterinary professional skills to diagnose and treat the zoo, wild animals and birds.
c3-use the suitable house and equipments for each animal and bird species
c4-interpret the zoo animals' and birds'behaviours.

d- General and transferable skills

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

dl- 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 from using arrange of appropriate soft ware (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, Beni-Suef University, Beni-Suef, 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-Environemntal physiology	2	--	2
2-Zoonoses and animal hygiene	2	--	2
3--Management of Zoo animal	1	2	3
4- Internal medicine and infectious disease	2	2	4
5- Surgery and obstetrics	2	2	4
6- Wild birds diseases	1	2	3
Total	10	8	18

5- Programme – course ILOS Matrix

Title	a 1	a 2	a 3	a 4	a 5	b1	b 2	b3	b4	b5	c1	c 2	c3	C4	d1	d2	d3
1- physiology of zoo animal									x	x					x	x	x
2- Zoonosis and animal hygiene		x			x					x			x		x	x	x
3- Management of Zoo animal	x		x	x						x	x			x	x	x	x
4-Surgery and obstetrics							x	x		x					x	x	x
5-Internal medicine and infectious deceases	x				x	x				x		x			x	x	x
6-Wild birds diseases										x		x		x	x	x	x

ILOS	Program aims		
	scientific student the scientific bases of the wildlife management and habitat improvement,	identifying zoonotic diseases acquired from them and	treatment of wild animals diseases; medically and surgically
al- Identify advanced research techniques used in the field of wildlife management and zoo medicine. a2-write the dimensions and design of house necessary for zoo animals. a3-explain the effect of enclosures on the animal behaviour. a4- planning to outline the managerial policy a5- identify the zoonotic,infectious and internal diseases in wild animals and birds.	x x x x	x	x
. bl- describe symptoms of infectious and internal diseases of wild animals and poultry. b2- solve gynecological problems of zoo animals. b3-make a decision based on his/her surgical, gynecological and medicinal information of zoo animals. b4-recognize physiological parameters of wild animals		x	x x x x

and birds.			
cl-apply methods of handling and securing wild animals to apply the most common intervention in zoo. c2-apply distinguished veterinary professional skills to diagnose and treat the zoo, wild animals and birds. c3- use the suitable house and equipments for each animal and bird species c4-interpret the zoo animals' and birds'behaviours and diseases.	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 year.
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 week**
	Less than 45 very week

Programme coordinator:
Name.....
Signature..... Date

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

University
Faculty of Veterinary Medicine

University: Beni-Suef University, Egypt.

Faculty: Faculty of Veterinary Medicine.

Departments:Department of Animal and poultry Management and Wealth Development

Course specification

A- Administrative Information:

Course Code:	
Course title :	Wild animal management
Academic year:	Postgraduate students.
Program title:	Diploma of Vet. Med. Sciences (wild life).
Degree:	Diploma.
Contact hours/ week	3hours per week (2hr theoretical and 1hr practical).
Course coordinator:	Dr. FatmaHanafySayed.
Date of course approval:	

B-Professional information

1- Overall aims of course:

This course aims to:

- After completing the postgraduate course in management of farm animals, the postgraduate student willacquire skills related husbandry, health management, population management, training, enrichment and record keeping for zoo animals.Furthermore, the student will understand the special behaviour patterns of some wild life animals.

2- Intended learning outcomes of course (ILOs)

a-Knowledge and understanding:

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

a.1-Identify what is a zoo.

a. 2- Recognize the amount and design of space necessary for an animal.

a.3- Explain the effect of enclosures on the animal behaviour.

b- Intellectual skills:

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

b.1-Distinguish the condition, size and type of animal, and its potential behaviour if conscious.

b.2- Manage the social structure of the wild life animals.

b.3- Estimate the breeding requirements of studied animals.

c-Professional and practical skills

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

c.1-Illustrate the knowledge about the risks associated with the zoo operation along with the control measures in place.

c.2- interpret the animal's health and behaviour; know the difference between normal and abnormal behaviour patterns.

c.3-Use the suitable house and equipments for each animal species.

d- General and transferable skills

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

d1. Appreciate the team working and time management.

d2. Value the ethics and respect to all individuals inside and outside the dissecting room and pay appropriate respect to the animal's cadavers.

d3. Recognize the scope and limits of their role as students as well as the necessity to seek and apply collaboration with other colleagues.

d4. Maintain a professional image concerning behavior, dress and speech.

d5. Be responsible toward work.

d6. Communicate effectively with public, colleagues and appropriate authorities.

d7. Achieve computer skills necessary to make use of medical databases and use the internet for communication.

d8. Prepare a scientific paper and essay.

3-Topics and contents

	Topic	Total (hr)	Lecture (hr)	Practical (hr)
Course contents	**Introduction to wild life**	2	2	0
	Behaviour of wild ruminants.	4	4	0
	Management of wild ruminants.	3	3	0
	Behaviour of feline family.	4	4	0
	Management of feline family	4	4	0
	Behviour of canine family.	3	3	0
	-Management of canine family.	3	3	0
	Behaviour of wild birds.	3	3	0
	Management of wild birds.	3	3	0
	Behaviour of reptiles.	3	3	0
	Management of reptiles.	3	3	0
	Manipulation and restraint of different wild animals.	28	0	28
	Practical management techniques of different wild animals.	22	0	22
	Health management of different wild animals.	6	0	6
	Administration of medicine in different wild animals.	7	0	7
	Measuring behaviour.	6	0	6
	Students activities Writing assays.	4	1	3
		108	36	72

Teaching and learning methods

5.1. Lectures (brain storming, discussion) in which one or more of the following facilities are used:

5.1.1. White board and data-show presentations.

5.1.2. Brain storming and group discussion

5.1.3. Illustrations behavior of wild and zoo animals' behavior and handling videos.

5.2.Laboratory sessions in which one or more of the following facilities are used:

5.2.1. Tutor presentation followed by students' small group sessions.

5.3.Independent (laboratory and home assignments supervised by tutor)

5.3.1. Writing reports and assignments (computer researches and faculty library attendance).

5.3.2. Preparation of colored posters and slide presentation.

5.3.3. Group discussion

5-Student assessment

5.1. Assessments methods:

Methods of assessments	Knowledge & Understanding	Intellectual Skills	Professional &Practical Skills	General &Transferable Skills
Written exam	a.1-a.3	b.1-b.3	c.2-c.3	
Practical exam			c.1-c.2	
Oral exam	a.1-a.3	b.1-b.3	c.2-c.3	d.1-d.5

5.2. Assessment schedules/semester:

Method	Week(s)
Practical exams	Managed by department administration
Final exams	Managed by faculty administration
Oral Exams	Managed by department administration

5.3. Weight of assessments:

Assessment	Weight of assessment
Practical and oral exams	50%
Final exams	50%
Total	100%

6- List of references

8.1. Notes and books:

- Textbook of Poultry &Animal Management and Behaviour (part2)
- Practical Note of Animal & Poultry Behaviour and Management (part1)
-Practical Note of Animal & Poultry Behaviour and Management (part2)

8.2. Essential books:

The Animal Mind

opensiuc.lib.siu.edu/cgi/viewcontent.cgi?article...tpr

8.3. Recommended textbooks:

- Introduction to Wildlife Management: The Basics Paul R. Krausman
- -Wildlife Habitat Management: Concepts and Applications in Forestry
- Brenda C. McComb
- - Wildlife Habitat Management: Concepts and Applications in Forestry
- Brenda C. McComb
- - Wildlife management techniques manual
- Sanford D Schemnitz
- - An Introduction to Behavioural Ecology 4th Edition
- Nicholas B. Davies, John R. Krebs and Stuart A. West
- - Animal Learning and Cognition, 3rd Edition: An Introduction

John M.

8.4. Journals, Websites ……..etc

- http://www.awf.org/
http://www.bagheera.com/

http://www.coloradowildlife.org/

http://www.cites.org/

Course Coordinator **Head of the department**

Course specification Matrix

	Topics	Wk	Knowledge and Understanding	Intellectual Skills	Practical and Professional Skills	General & Transferable Skills
1	**- Introduction to wild life**	**1-2**	a.1			**d.1-d.5**
2	**Behaviour of wild ruminants.**	**3-6**	a.3	b.1, b.2	c.2	**d.1-d.5**
3	**Management of wild ruminants.**	**7-9**	a.2	b.2, b.3	c.3	**d.1-d.5**
4	**Behaviour of feline family.**	**10-13**	a.3	b.1, b.2	c.2	**d.1-d.5**
5	**Management of feline family**	**14-17**	a.2	b.2, b.3	c.3	**d.1-d.5**
6	**Behviour of canine family.**	**18-20**	a.3	b.1, b.2	c.2	**d.1-d.5**
7	**- Management of canine family.**	**21-23**	a.2	b.2, b.3	c.3	**d.1-d.5**
8	**- Behaviour of wild birds.**	**24-26**	a.3	b.1, b.2	c.2	**d.1-d.5**
9	**- Management of wild birds.**	**27-29**	a.2	b.2, b.3	c.3	**d.1-d.5**
10	**Behaviour of reptiles.**	**30-32**	a.3	b.1, b.2	c.2	**d.1-d.5**
11	**Management of reptiles.**	**33-35**	a.2	b.2, b.3	c.3	**d.1-d.5**
12	**Manipulation and restraint of different wild animals.**	**1-14**			c.1	**d.1-d.5**

13	**Practical management techniques of different wild animals.**	**15-25**			c.1	**d.1-d.5**
14	**Health management of different wild animals.**	**26-28**			c.1, c.2	**d.1-d.5**
15	**Administration of medicine in different wild animals.**	**29-30**			c.1	**d.1-d.5**
16	**Measuring behaviour.**	**31-36**			c.2	**d.1-d.5**

Course specification

1-Basic information

Course title:	Infectious diseases of wildlife animals
Program title:	Diploma of zoo animals
Contact hours/ week	3 hours per week (1 theoretical and 2 practical)
Approval Date	

2-Professional information

Overall aims of course:

This course aims to:

Employ the acquired knowledge of infectious diseases of wildlife animals with other related topics and master different professional skills and techniques in diagnosis, prevention and control of infectious diseases of wildlife animals. Also, to support the basic knowledge about etiology, epizootiology, clinical sings, and diagnosis and control measures of infectious diseases of wildlife animals, demonstrate an understanding of basic control management procedures and protocols including isolation, quarantine and disinfection and provide opportunities to understand the molecular and cellular mechanisms of disease process

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 infectious diseases of wildlife animals.
a2- list the major field problems concerned with infectious diseases of farm animals.
a3- Mention the basic knowledge about the treatment and control measures of different infectious and non-infectious diseases of wildlife animals.
a4- Identify the important aspects regarding the diagnosis of different infectious diseases of wildlife animals.

B- Intellectual skills

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

Course specification

b1- analyze the field problems to reach a preliminary diagnosis.
b2- suggest the suitable solutions during outbreaks and interpret the available data.
b3- use the basic information for analysis of epidemics of wildlife animals and to enable the students how to interpret the available data to achieve diagnosis.
b4 -Enhance the ability to differentiate between infectious diseases of wildlife animals.

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 program.
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	hours	Lectures	Practical
Infectious diseases of wildlife animals	Introduction of infectious diseases of wild life	18	6	12
	Ecology of wild life	18	6	12
	Different ecosystems.	18	6	12

Course specification

	Management of different wild life animals	18	6	12
	Infectious diseases of wild life	18	6	12
	Control of diseases of wild life	18	6	12
	Total	108	36	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

1.1. 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-a4	b1- b2- b3-b4		
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	During December
Practical exam	During December
Oral exam	During December

6.3. Weight of assessments:

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

Course specification

7- List of references

7.1. Notes and books

- Infectious diseases of domestic animals (2004/1588) by H.I.Hosein (2018) 4th Ed.

7.2. Essential books:

- Essentials of Disease in Wild Animals, Gary A. Wobeser
- Disease in Wild Animals: Investigation and Management, Gary A. Wobeser (Author)
- 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, Websites ……..etc

Journals:

Journal of Wildlife Diseases
European Journal of Wildlife Research - Springer
Journal of Zoo and Wildlife Medicine
International Journal for Parasitology: Parasites and Wildlife
Journal of Veterinary Diagnostic Investigation

Websites:

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

Course Coordinator **Head of Department**
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 wild life	1-6	a1,a2			
Ecology of wild life	7-11	a1- a2- a3- a4	b1-b2- b3-b4		d1- d2 d3
Different ecosystems.	12-16	a1- a2- a3- a4	b1-b2- b3-b4		
Management of different wild life animals	17-21	a1- a2- a3	b1-b2- b3-b4	c2, c4	d3, d4
Infectious diseases of wild life	22-26	a1- a2- a3- a4	b3-b4	c2	
Control of diseases of wild life	27-36	a1- a2	b1-b2- b3		

Beni-Suef University
Faculty of Veterinary Medicine

Course specification of postgraduate

1-Basic information

Course Code:	D6- A
Course title:	**Animal Hygiene and zoonoses**
Program title:	Diploma of Vet. Med. Sciences (wild life)
Contact hours/ week	2 hour/ week (Lect.2h./week; Pract. –h/week)
Approval Date	

2-Professional information

Overall aims of course:

This course aims to:

1- Detect the characteristics of wild life in relation to environmental and climatic factors.
2- Analyze and relate data from different ecological studies of wild life diseases.
3- criticize the role of veterinarian in maintaining wild life

3- Intended learning outcomes of course (ILOs)

a- Knowledge and understanding:

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

a1. Describe the importance of wild animals for ecosystem.
a2. Outline wild life problems in relation to human activities.
a3. List the effect of climatic changes on wild animals and life.
a4. Recall the role of wild animals in spreading of zoonotic importance.
a5. List emerging diseases affecting wild animals.
a6. Mention principles of control of contagious diseases in wild animals.
a7. Outline the consequences of pollution on wild life and ecosystem**.**

b- Intellectual skills

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

b1. Collect and analyze data for ecological studies.
b2. Evaluate the effect of stressors on wild animals.
b3. Design and interpret epidemiological studies for wild animal's diseases.
b4. Predict a health problem in relation to epidemiological studies.
b5. Evaluate methods of prevention and control of diseases in wild animals.
b6. Criticize the role of veterinarian in maintaining wild life .

c- Professional and practical skills

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

c1. Practicing and monitor disease occurrence in wild animals.
c2. Sketch distribution of wild life in different niches.
c3. Apply a new technique for hygienic disposal of wild animals.
c4. Employ the epidemiological investigation of disease in disease control.
c5. Plan a program in maintaining and improving wild life.
c6. Solving environmental problems in wild life.

d- General and transferable skills

Beni-Suef University
Faculty of Veterinary Medicine

Course specification of postgraduate

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

d1. Design a plan for solving environmental problems that increase risk of parasitic infestation.
d2. Utilize group working in parasitic diseases prevention and control.
d3. Able to communicate with specialists.

4-Topics and contents

Course	Topic	Weeks	No. of hours	Lectures	Practical
Course Title: Animal Hygiene and Zoonoses (Lec.2 h./week, Pract. -h./week)	**Course description**	1st	2	2	-
	Ecosystem	2nd-4th	5	5	-
	Environment and diseases	5th -9th	8	8	-
	Ecological study	10th -13th	8	8	-
	Epidemiology	14th-20th	17	17	-
	Investigation of disease outbreak	21th -24th	8	8	-
	Disposal of animal mortalities	25th- 27th	6	6	-
	Control of diseases	28th-33th	12	12	-
	Student activities: Internet assay Farm visits	34th -36th	6	6	-
	Total	36	72	72	-

5-Teaching and learning methods

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

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

5.3- Training visits: to animals and poultry farms

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 to a7	b2,b3,b4,b5,b6		d1
Practical Exam		b1,3	c1 to c6	d2
Oral Exam	a1 to a7	b2,b3,b4,b5,b6	c4, c5	d1-3

Course specification of postgraduate

7.2. Assessment schedules

Method	Month(s)
Practical exams	During December
written exams	During December
Oral Exam	During December

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:

- Text book of Animal, Poultry and Environmental Hygiene (Parts I & II) Professor/ Mohammed Abdel Rahman Elbably and Dr/ Asmaa Nady Mohammed

Practical notes on Animal, Poultry and Environmental Hygiene (Parts I & II) Professor/ Mohammed Abdel Rahman Elbably and Dr/ Asmaa Nady Mohammed

8.2. Essential books:

1. A Manual Of Veterinary Hygiene Sir Frederick Smith (Author) Published By: General Books
2. Water pollution (causes, effects and control) P.K Goel
3. Animal Health and Housing. "David Sainsbury", London, Bailliere, Tindal and Cassel 1997.
4. Animal Health and Housing. "David Sainsbury" Blackwell Science 2000.

Disinfection, Sterilization and preservation Seymour S Block, Block Lea Febiger (1991)

8.3. Recommended texts

1. Veterinary Hygiene by Robert Georg Linton (Paperback - 8 Jan 2010)
2. A Manual of Veterinary Hygiene Sir Frederick Smith (Author) Published By: General Books

Fundamental pollution: By Krishman Kannan 1997, S. Chard and Company LTD.

8.4. Journals, Websites ……..etc

Journals:

Journal of Animal Science - Poultry Science - J. Environ. Quality - Environmental pollution -Journal Veterinary Research - J. Environmental managing- Journal Toxicology and Environmental Health

Websites:

Course specification of postgraduate

1. www.thepigsite.com/
2. www.disinfectants1.com
3. www.thepigsite.com/
4. www.disinfectants1.com

5.www.rvc.ac.u

Course Coordinators **Head of Department**

Dr. Asmaa Nady Mohammed **Prof. Dr. Mohamed Ali**

Beni Suef University
Faculty of Veterinary Medicine

Course specification

	Topics	week	Intended learning outcomes of course (ILOs)			
	1st semester		K and U (a)	I.S (b)	P. P.S. (c)	G.T.S (d)
1	Course description	1st	a1,a2	b1	-	-
2	Ecosystem	2nd-4th	a1,7	B2	C1	d 2
3	Environment and diseases	5th -9th	a4	B6	C5	d3
4	Ecological study	10th -13th	a3	B2	C4	d1
5	Epidemiology	14th-20th	a4	B3,4	C3	d3
6	2nd semester					
10	Investigation of disease outbreak	21th -24th	a2	B5	C2	d2
11	Disposal of animal mortalities	25th- 27th	a3	B5	C3	d2
12	Control of diseases	28th-33th	a6,5	B5	C 5,6	d2,3
13	Student activities	34th -36th	a1,2	B1	c1	d1,2,3
14						
15						
16						
17						
18						

Beni-Suef University
Faculty of Veterinary Medicine

Course specification of postgraduate

1-Basic information

Course Code:	**D**
Course title :	**Physiology of environment and adaptation**
Program title:	**Diploma Degree of Veterinary Medical Sciences**
Contact hours/ week	**2hrs(lecture)**
Approval Date	

2-Professional information

Overall aims of course:

This course aims to:

a- provide students with knowledge, skills and confidence that fit them for clinical, scientific, ethical and client-related problems met with in their career**.**

b- foster an enthusiastic interest in the physiology of environment, adaptation and cell that are primarily relevant to veterinary research.

3- Intended learning outcomes of course (ILOs)

a- Knowledge and understanding:

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

a.l- describe the chief structural and functional features of the cell components.

a.2- discuss the nature and importance of the genetic code.

a.3- summarize the process of protein biosynthesis.

a.4- describe the stage of cell life cycle and its regulation.

a.5- recognize that animals with anatomical and physiological specializations often contribute much to our understanding of general principles.

b-Intellectual skills

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

b.l- design a comparative physiology as a description of functions peculiar to different animal species.

b.2- explore anatomical and physiological specializations for adaptations in different environments.

b.3- interpret the relationship between cell division and cancer.

C- Professional and practical skills

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

c.l- differentiate between body systems in different animals.

c.2- discover that many problems can be understood, once a few fundamental principles are familiar.

d- General and transferable skills

Beni-Suef University
Faculty of Veterinary Medicine

Course specification of postgraduate

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

d.1- summarize research findings in oral form in seminars and workshops.
d.2- communicate effectively with supervisors.
d.3- demonstrate information retrieval and library skills.

4-Topics and contents

Course	Topic	Lectures
(Lec. h./week Lec,2hrs/wk	Composition of the environment	12hrs
	Geological activity	12hrs
	Atmosphere, climate and weather	12hrs
	Environmental pollution	12hrs
	Adaptations in different environments	12hrs
	Homeostasis	12hrs
	Total	72hrs

5-Teaching and learning methods

5.1- Lectures (brain storm, discussion) using board, data shows
5.2- Self learning by preparing essays and presentations (computer researches and library)
5.3- Practical (models, samples of stainrd tissues and data show).

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- a4-a5	b1- b2- b3	c1- c2	d1-d2-d3
Oral Exam	a1- a2- a3-- a4-a5	b1- b2- b3	c1- c2	d1-d2-d3-

7.2. Assessment schedules

Method	Week(s)
Writing exam	**last weak**
Oral exam	**last weak**

7.3. Weight of assessments

Assessment	Weight of assessment
Writing exam	**50%**

Course specification of postgraduate

Oral exam	**25%**
total	100%

8- List of references

8.1. Notes and books Student handbook of physiology prepared by the department staffs

8.2. Essential books: * Animal physiology: Adaptation and environment. Knut Schmidt-Nielsen, 1990 (5th ed.) Cambridge University Press (low price edition).

* Physiological ecology of animals: An evolutionary approach. Sibly, RM and Calow, B., 1986. Black well scientific publications.
* Environmental physiology of animals. Patwill Mer; Graham Stone and Ian Johnston, 2005. Black well scientific publications (2nd edition).

8.3. Recommended texts* Experiments in Physiology 6th Edition. Gerard P. Tharp 1993.

* Textbook of Medical Physiology. Guyton & Hall 9th Edition. 1996. W.B. Saunders Co. (Harcourt Brace I.E.) Philadelphia, USA.
* Physiology 3rd edition. John Buuock, Joseph Boyle III and Michael B. Wang, 1995. National Medical Series for Independent Studies. Middle East Edition. Mass Publishing CO. 9Al Tahrir St., Dokki, Giza, Egypt.

8.4. Journals, Websites ……..etc

Journals: * Egyptian J. of Basic and Applied Physiology. Cairo, Egypt

Websites:

WWW.Science direct
WWW. Pubmed.com
WWW.Scholar google.com
WWW.welly interscience

Course Coordinators **Head of Department**

Course specification

	Topics	week	Intended learning outcomes of course (ILOs)			
	Histology of lab animal		K and U (a)	I.S (b)	P. P.S. (c)	G.T.S (d)
1	General structure of digestive system	1st w- 9th w	1,2,3	1,2,3	1,2,3,4	1,2,3,4,5
2	- General structure of respiratory system	10th w- 18th w	1,2,3	1,3	1,2,3,4	1,2,3,4,5
3	- General structure of urogenital system	19th w- 27th w	1,2	1,2,3	1,2,3	1,2,3,4,5
4	- General structure of lymphatic system	28th w- 36th w	1,2	1,2,3	1,2,3	1,2,3,4,5

Beni-Suef University
Faculty of Veterinary Medicine

Course specification of postgraduate

1-Basic information

Course Code:	**D6-E**
Course title :	Obstetric Course
Program title:	Diploma of Wild and Zoa Animals
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 Wild and Zoa Animals.

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.

a.2- Knowledge about the management of Periparturient Wild and Zoa Animals and the its economics

a.3- Understanding the relationship between successful breeding programs and the profitability of the Wild and Zoa Animals..

a.4- Knowledge about diagnosis and control of different forms of dystocia.

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.

b.2- Identify of cases of infertility and how to treat.

b.3- Creative thinking for keeping Pregnant dams.

b. 4- Identify of Dairy rations and feeding of pregnant and early parturient dams.

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 Wild and Zoa Animals.

c-6- Diagnosis of abortion.

c-7- Investigation of infertile Wild and Zoa Animals.

c-8- Hormonal control of the peripartum period.

c-9- Collection & preservation of diagnostic specimens.

c-10- Obstetrical manipulations.

Course specification of postgraduate

d- General and transferable skills

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

d-1- Management of Wild and Zoa Animals

d-2- Use of new technological tools for keeping normal fertility in females.

d-3-Identifying & controlling of forms of dystocia.

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	4	4	-
	2. Physiology of gestation in Wild and Zoa Animals	4	4	
	3. Pathology of gestation arising from the dam	4	4	
	4. Pathology of gestation arising from the Fetus and the fetal membranes.	4	4	
	5. Signs of Fetal maturity.	4	4	-
	6. Normal birth in Wild and Zoa Animals.	6	2	4
	7. Dystocia inWild and Zoa Animals	6	2	4
	8. Physiology of the postpartum period.	4	4	-
	9. Pathology of the postpartum period.	8	4	4
	10. Cesarean section	4	-	4
	11. Fetotomy	4	-	4
	12. Correction of faulty P.P.P.	4	-	4
	13. A scheme for obstetrical examination	4	-	4
	14. Postpartum care of dam and newborn.	4	4	-
	15. Interference in normal birth	4	-	4
	16. Instruments and medications	4	-	4
	Total	72	36	36

5-Teaching and learning methods

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

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

Course specification of postgraduate

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, Websites ……..etc

Journals:

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

Websites:

Course specification of postgraduate

www.sciencedirect.com
www.pubmed.com
- Google.Com
- Arabvet.com
- Esarf tripod.com/index.htm

Course Coordinators	Head of Department
Prof. Dr. Ahmed Gomaa Mohamed	**Prof. Dr. Elsayed M. M. Abdel Gawad**

Course specification

	Topics	week	Intended learning outcomes of course (ILOs)			
	Course Description		**K and U (a)**	**I.S (b)**	**P. P.S. (c)**	**G.T.S (d)**
1.	Terminology, anatomy of soft and bony birth way	1st w- 2nd w	1,2,3	1,2,3	1,2,3,4	1,2,3,4,5
2.	Physiology of gestation in Wild and Zoa Animals	3rd w- 4th w	1,2,3	1,3	1,2,3,4	1,2,3,4,5
3.	Pathology of gestation arising from the dam	5th w- 7th 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.	8th w- 10th w	1,2	1,2,3	1,2,3	1,2,3,4,5
5.	Signs of Fetal maturity.	11th w-13th w	1,2,3	1,3	1,2,3,4	1,2,3,4,5
6.	Normal birth in Wild and Zoa Animals.	14th w-15th w	1,2,3	1,3	1,2,3,4	1,2,3,4,5
7.	Dystocia inWild and Zoa Animals	16th -17th w	1,2,3	1,3	1,2,3,4	1,2,3,4,5
8.	Physiology of the postpartum period.	18thw-19th w	1,2,3	1,3	1,2,3,4	1,2,3,4,5

Course specification

9.	Pathology of the postpartum period.	20th w-21st w	1,2,3	1,3	1,2,3,4	1,2,3,4,5
10	A scheme for obstetrical examination	22nd -23rd w	1,2,3	1,3	1,2,3,4	1,2,3,4,5
11	Interference in normal birth	24th -25th w	1,2,3	1,3	1,2,3,4	1,2,3,4,5
12	Instruments and medications	26th -27th w	1,2,3	1,3	1,2,3,4	1,2,3,4,5
13	Cesarean section	28th w-29th w	1,2,3	1,3	1,2,3,4	1,2,3,4,5
14	Fetotomy	30th -31st w	1,2,3	1,3	1,2,3,4	1,2,3,4,5
15	Correction of faulty P.P.P.	32nd w-33rd w	1,2,3	1,3	1,2,3,4	1,2,3,4,5
16	Postpartum care of dam and newborn.	34th -36th w	1,2,3	1,3	1,2,3,4	1,2,3,4,5

Beni-Suef University
Faculty of Veterinary Medicine

Course specification of postgraduate

1-Basic information

Course Code:	D6-F
Course title :	Diseases of Wild Birds
Program title:	Diploma of Vet. Med. Sciences (Diploma of wild life)
Contact hours/ week	3 hours per week (1 theoretical and 2 practical)
Approval Date	02-10-2018

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 wild and migratory birds.
2- Detect the current problems related to wild and migratory birds.
3- Apply all professional skills and use the appropriate technological means in diagnosis of diseases of wild and migratory birds.
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 regarding diseases of wild and migratory birds and risks they carry to domestic birds.
8- Commit the moral and legal rules of handling wild and migratory birds.
9- Aware the importance of self development and continuous learning in the field of diseases of wild and migratory birds.

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 wild and migratory birds' species and diseases.
a.2. Outline specialized theories and knowledge in the field of wild and migratory birds and related sciences.
a.3. Identify the legal and moral rules in practices targeting diagnosis, treatment and control wild and migratory birds' diseases.
a.4. Understand different risk factors when handling wild and migratory birds.
a.5. Underline the role of his/her professional practices in community development and environmental conservation.
a.6. Describe wild and migratory birds' disease prevention and control measures and the role of each in keeping healthy environment, protecting both domestic poultry and human health and developing the surrounding community.

b-Intellectual skills

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

b.1. Detect and analyze problems related to or caused by wild and migratory birds and arrange them according to their priorities.
b.2. Suggest the appropriate solutions for field problems in the area of wild and migratory birds.
b.3. Make scienti c reading and analysis of research papers and topics related to wild and migratory birds' diseases.
b.4. Asses different risk factors for each practice related to handling wild and migratory birds.
b.5. Take decisions using the available information.
b.6. Plan for diagnostic scheme for disorders related to wild and migratory 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 wild and migratory birds' diseases.
c.2. Prepare a sheet for wild and migratory birds' disease history and write a diagnostic report.
c.3. 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 di erent facilities for gaining knowledge and information.
d.5. Learn how to work e ectively as part of a team properly manage the time.
d.6. Lead teamwork e ectively.
d.7. Understand the signi cance and means of continuous self learning.

Beni-Suef University
Faculty of Veterinary Medicine

Course specification of postgraduate

4-Topics and contents

Course	Topic	No. of hours	Lectures	Practical
Diseases of Wild Birds (Lec. 1h./week, Pract 2h./week)	**Different species of wild and migratory birds**	2	2	-
	Bacterial diseases of wild and migratory birds	10	10	-
	Mycotic diseases of wild and migratory birds	4	4	-
	Viral diseases of wild and migratory birds	10	10	-
	Parasitic diseases of wild and migratory birds	3	3	-
	Nutritional diseases of wild and migratory birds	2	2	-
	Miscellaneous diseases of wild and migratory 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	6	-	6
	Medication	8	-	8
	Student activities: - **Writing assays** - **Internet search**	- -	- -	- -
	Total	108	36	72

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,

Course specification of postgraduate

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 a4 a5 a6	b1 b2 b3 b4 b5 b6		
Practical Exam	a1 a2 a3 a4 a5 a6	b1 b2 b3 b4 b5 b6	c1 c2 c3	
Oral Exam	a1 a2 a3 a4 a5 a6	b1 b2 b3 b4 b5 b6	c1 c2 c3	d1 d2 d3 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%

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 andDavid 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.

Course specification of postgraduate

7.4. Journals, Websites ……..etc

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	Head of Department
Dr. Salama Abohamra	Dr Azza A. El-Sawah

Beni-Suef University
Faculty of Veterinary Medicine

Course specification of postgraduate

Postgraduate students Poultry and rabbit diseases 3 hours / weak (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 wild and migratory birds	1-2	1, 2, 3, 6	1, 2, 3, 4, 6	-	1, 2, 3, 4, 5, 6, 7
	2	Bacterial diseases of wild and migratory birds	3-12	1, 2, 3	1, 2, 3, 4	-	
	3	Mycotic diseases of wild and migratory birds	13-16	1, 2, 3, 6	1, 2, 3, 4, 6	-	
	4	Viral diseases of wild and migratory birds	17-26	1, 2, 3	1, 2, 3, 4	-	
	5	Parasitic diseases of wild and migratory birds	27-29	1, 2, 3, 6	1, 2, 3, 4, 6	-	
	6	Nutritional diseases of wild and migratory birds	30-31	1, 2, 3, 6	1, 2, 3, 4	-	
	7	Miscellaneous diseases of wild and migratory birds	32-33	1, 2, 3, 6	1, 2, 3, 4, 6	-	
	8	How to handle zoonotic pathogens of avian origin	34-36	1, 2, 3, 6	1, 2, 3, 4, 6	-	
	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, 6	1, 2, 5	1, 2, 3	
	14	Parasitological examination	14-15	4, 5	1, 2, 5	1, 2, 3	
	15	Advanced laboratory techniques	16-18	4, 5	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	29-31	4, 5, 6	1, 2, 5	1, 3	
	20	Medication	32-35	4, 5	1, 2, 5	1, 2, 3	
	Student activity		Along the course	1, 2, 3, 4	1, 2, 3	3	