Beni-SuefUniversity

Faculty of Veterinary Medicine

Department of Animal and poultry Management and Wealth Development

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DIPLOMA PROGRAMME SPECIFICATION
2017-2018

University: Beni- Suef
Faculty: Veterinary medicine
A- Administrative Information
1. Programme title: Diploma of Vet. Med. Sciences (farm animal management)
2. Award/degree: Diploma
3. Department responsible: Department of Animal and poultry Management and Wealth Development

4. Coordinator: **FatmaHanafySayed Khalil**

5-Approval date of Faculty Council:

B- Professional Information

1. **Programme aims:** The Diplomaprogramme supports the postgraduate improve skills related to farm animal management, hygiene, breeding and nutrition to improve their productivity and reproduction.

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 different methods used forfarm animal management,housing, breeding and feeding.
a2-list methods of improving animal productivity.
a3-relate animal hygiene to production.
a4-write physiology of farm animal reproduction.

b- Intellectual skills

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

bl- identifynormal and abnormal behaviors of farm animals.

b2-explain different rearing systems and housing of farm animals that improve productivity.

b3- make a decision of culling or keeping animals in farm based on productivity, reproduction and health status.

b4- recognize cases of malnutrion in farm animals.

c- Professional and practical skills

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

cl-apply ethical guidelines of management, handling, securing andidentification of farm animals.

c2-use of advanced strategies in farm animal nutrition.

c3-schedule production of animals in farms.

c4-interpret animal reproduction/production based on his genetic characteristics.

c5-solve manure problems in farm animals.

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, 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-Management and behaviour of farm animals	2	2	4
2-Animal hygiene	1	1	2
3-Animal inbreeding and raising	1	1	2
4-Animal nutrition and diseases of malnutrition	1	2	3
5-Farm animal production	1	2	3
6-Physiology of reproduction	2	--	2
Total	8	8	16

5- Programme – course ILOS Matrix

Title	a1	a2	a 3	a 4	b1	b 2	b3	b4	c1	c2	c3	c4	c 5	d1	d2	d3
1- Management and behaviour of farm animals	x				x	x	x		x			x		x	x	x
2-Animal hygiene	x		x			x							x	x	x	x
3-Animal rearing		x				x	x							x	x	x
4-Animal Nutrition & deficiency diseases	x							x		x				x	x	x
5- Farm animal production		x					x				x	x	x	x	x	x
6- Physiology of reproduction				x			x					x		x	x	x

ILOS	Program aims		
	improve skills related to farm animal management, hygiene, breeding of animals	improve skills related to adequate nutrition	Improve farm animals' production and reproduction
a1- Identify different methods used for farm animal management, housing, breeding and feeding. a2-list methods of improving animal productivity. a3-relate animal hygiene to production. a4-write physiology of farm animal reproduction.	x	x	x x
b1- identify normal and abnormal behaviors of farm animals. b2- explain different rearing systems and housing of farm animals that improve productivity. b3- make a decision of culling or keeping animals in farm based on productivity, reproduction and health status . b4- recognize cases of malnutrion in farm animals.	x x	x	x x
c1-apply ethical guidelines of	x		

x

management, handling, securing and identification of farm animals. c2-use of advanced strategies in farm animal nutrition. c3-schedule production of animals in farms. c4- interpret animal reproduction/production based on his genetic characteristics. c5-solve manure problems in farm animals.			

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:	**D11-A**
Course title :	Management and behaviour of farm animals
Academic year:	Postgraduate students.
Program title:	Diploma of Vet. Med. Sciences (Animal management animals).
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 managementof farm animals, the postgraduate student will be acquire knowledge and skills related to the observation and interpretation of general and special behaviour of animals.In additions, the different steps of identification, breeding and management in animal farms.

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. Recognize the different needs of the animal and how to satisfy it.
a.2. Identify the proper management techniques adopted for each animal throughout its life stages.
a.3. Name the suitable method for animal securing
a.4.Identify abnormal behavior of farm animals.
a. 5.Define special managerial methods for eachfarm animals.
a. 6. List different methods of animal identification
a. 7. List causes of abnormal behavioral patterns performed by different farm animals.

b-Intellectual skills:

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

b.1- Differentiate between normal and abnormal behavioural patterns in each animal species.
b.2- Appraise the different management systems for different animal species.
b.3-Examine the animal health management and different routs of drug administration.
b4. Analyze behaviour of different farm animals using focal or scan observations.
b5. Identify the different methods marking and identification suitable to each farm animals' species.
b3.Predict effect of abnormal behaviors performance by different farm species
b8. Relate performance of different animals' species to theirmanagement.
b9.Estimate the causes of abnormal behaviors performance.
b10.Definemanagerial causes of bad fertility in different animals
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c-Professional and practical skills

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

c.1.Apply the best methods for animalapproach and handling,securing.
c.2.Interpret the proper management in animal farms.
c.3.Employ stable management, practical animal management techniques, animal age in the animal welfare issues.
c.4. Demonstrate the different routes used for animal inoculations.
c.5. Illustrate the suitable breeding programs for each animal species.
c.6. Analyze normal and abnormal behaviors of farm animals.
c.7. Interpret normal and abnormal behaviors of farm animals..
c.8. Adjust different environmental conditions in farm animals house.
c.9.Detect estrous in different farm animals species.
c.9. Diagnose pregnancy of different farm animals species.
c.10. list the causes of culling animals from breeding.

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

Course Contents:	Week	Topic	Total (hr)	Lecture (hr)	Practical (hr)
	1-4	General Behaviour	8	8	0
	5-9	Management &Behaviour of Equines	8	8	0
	10-15	Management &Behaviour of Cattle	12	12	0
	15-20	Management of sheep & goat and their behaviour	12	12	0
	20-24	Management &Behaviour of camel	6	6	0
	24-30	Management &Behaviour of poultry	8	8	0
	1-5	Manipulation and restraint of animals	10	0	10
	6-9	Stable management of animals	8	0	8
	10-14	Practical management practices	10	0	10
	15-19	Dentition and Ageing of animals	10	0	10
	20-24	Signs of health	10	0	10
	25-29	Administration of medicine	10	0	10
	30-34	Behavioural anomalies and control	10	0	10
	35-36	Student activities - Writing essay	8	4	4
	Total		144	72	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 farm 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.

5.2.2.Animal farm in the faculty of veterinary medicine..

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:

Method	Matrix alignment of the measured ILOs/ Assessments methods			
	K&U	I.S	P&P.S	G.S
Final Exam	a1,a2, a4, a5, a6, a7	b1, b2,b3, b4, b5, b6, b7, b8, b9, b10,	c5, c7, c8, c9, c10	d1
Practical Exam	a4, a5, a6, a7,	b1, b2, b3, b4, b5, b9, b10,	c1, c2, c3, c4, c5, c6, c7, c8, c9, c10	d1, d2, d3, d4, d5,d6, d7, d8
Oral Exam	a1,a2, a3, a4, a5, a6	b1, b2,b3, b4, b5, b6, b7, b8, b9, b10	c1, c2, c4, c5, c6, c8, c9, c10	d1,d2,d3,d4, d5, d6

5.2. Assessment schedules/semester:

Method	Week(s)
Practical exams	Managed by department administration n (46 - 48th week)
Final exams	Managed by faculty administration(46 - 48th week)
Oral Exams	Managed by department administration(46 - 48 thweek)

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:

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- Farm Animal Behaviour. Fraser, A.F.
- Farm Animal Behaviour and Welfare. Fraser, A.F. and Broom, D.M.
- An Introduction to Animal Husbandry in the Tropics ,Payne, W.J.
- Horse and Stable Management. Brown, J.H., Sarah Pilliner and Davies, Z.
- - Understanding dairy cow. Webster, J
- - Domestic Animal Behaviour for Veterinarians and Animal Scientists. Katherine A. Houpt
- Cattle Behaviour and Welfar. Phillips, C.
- Animal Behavior.Drickamer, L.C., Vessey, S.H. and Meikle, D.
- Exploring Animal Behaviour Sherman, P.W. and Alcock, J.
- Exploring Animal Behaviour in Laboratory and Field.Ploger, B.J. and Yasukawa, K.

8.3. Recommended textbooks:

Animal behavior: An evolutionary approach .
J Alcock - 1993 - psycnet.apa.org

http://psycnet.apa.org/psycinfo/1993-97586-000

SOP: A model of automatic memory processing in animal behavior
AR Wagner -1981

https://books.google.com.eg/books?hl=ar&lr=&id=PZLpAgAAQBAJ&oi=fnd&pg=PA5&dq=animal+behavior&ots=dFqdv8DQVf&sig=Prwz_1yvwgm308dxG-um4tTqyCY&redir_esc=y#v=onepage&q=animal%20behavior&f=false

Animal behavior and internal drives
CP Richter - The Quarterly Review of Biology, 1927

http://www.jstor.org/stable/2808321

Poultry behaviour and welfare.
MC Appleby, JA Mench, BO Hughes - 2004

http://www.cabdirect.org/abstracts/20043121918.html;jsessionid=642FDB782FE297431F40D791C0616C1A

Poultry production systems.Behaviour, management and welfare.
MC Appleby, BO Hughes, HA Elson – 1992

http://www.cabdirect.org/abstracts/19932232448.html

ucdavis.edu]PDF[

The behaviour of sheep: biological principles and implications for production.
JJ Lynch, GN Hinch, DB Adams - 1992

http://www.cabdirect.org/abstracts/19922270832.htm

Domestic animal behaviour: causes and implications for animal care and management.
JV Craig - 198

http://www.cabdirect.org/abstracts/19812285911.html

Livestock behaviour.A practical guide.R Kilgour, C Dalton - 1983
http://www.cabdirect.org/abstracts/19840177080.html

The camel. Its evolution, ecology, behavior, and relationship to man.

H Gauthier-Pilters, AI Dagg - 1981

http://www.cabdirect.org/abstracts/19820167277.htm

[**Equine behavior**
P McGreevy - Veterinary Record, 2013

http://www.us.elsevierhealth.com/equine-behavior-9780702043376.html

[The one-humped camel (Camelusdromedarius) in eastern Africa. A pictorial guide to diseases, health care and management.

HJ Schwartz, M Dioli, R Stimmelmayr, MGH Walsh - 1992

http://www.cabdirect.org/abstracts/19942205814.html

8.4. Journals, Websites ……..etc

Applied Animal Behaviour Science - Journal - Elsevier
*www.**journals**.elsevier.com/**applied-animal-behaviour-sc***

-**Animal Behaviour - Journal - Elsevier**
*www.**journals**.elsevier.com/animal-**behaviour**/*

editorial board

Physiology & Behavior - Journal - Elsevier
*www.**journals**.elsevier.com/physiology-and-**behavior***

The *journal*...

Addictive Behaviors - Journal - Elsevier
*www.**journals**.elsevier.com/addictive-**behaviors**/*

Journal of Applied Behavior Analysis - Wiley Online Library
*onlinelibrary.wiley.com/**journal**/10.../(ISSN)1938-3703*

Analysis of *Behavior* ...

Brain and Behavior - Wiley Online Library
onlinelibrary.wiley.com › ... › Brain and Behavio

Environment and Behavior
eab.sagepub.com

Course Coordinator **Head of the department**

Course specification Matrix

	Topics	Wk	Knowledge and Understanding	Intellectual Skills	Practical and Professional Skills	General & Transferable Skills
1	**General Behaviour**	**1-4**		b.1		d.1
2	**Management &Behaviour of Equines**	**5-9**	a.l,a.2	b.1,b.2	c.2	d.1,d.2
3	**Management &Behaviour of Cattle**	**10-13**	a.l,a.2	b.1,b.2	c./2	d.1, d.2
4	**Management of sheep & goat and their behaviour**	**14-17**	a.l,a.2	b.1,b.2	c.2	d.1, d.2
5	**Management &Behaviour of camel**	**18-19**	a.l,a.2	b.1,b.2	c.2	d.1, d.2
6	**Management &Behaviour of poultry**	**20-23**	a.l,a.3,		c.1	
8						
9	**Management &Behaviour of laboratory animals**	**32-35**	a.l,a.2	b.1, b.2	c.2	d.1,d.2
10	**Manipulation and restraint of animals**	**1-5**	a.l,a.2	b.1, b.2	c.2	d.1,d.2
11	**Stable management of animals**	**6-9**	a.l,a.2	b.1, b.2	c.2	d.1,d.2
12	**Practical management practices**	**10-14**	a.l,a.2	b.1, b.2	c.2	d.1,d.2
13	**Dentition and Ageing of animals**	**15-19**			c.3	

14	**Signs of health**	**20-24**		b.3		
15	**Administration of medicine**	**25-29**		b.3		
16	**Behavioural anomalies and control**	**30-34**		b.1		

National Authority For Quality Assurance and Accreditation of Education

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

1- Basic information:		
Code No.: **D11 -D**	Course title: **Animal Nutrition & deficiency diseases**	Academic Year: 1st
Teaching Hours: Lecture: 1 Practical: 2 Total: 3		Specialization: Postgraduate Diploma of **Animal Management**

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 animal nutrition and deficiency diseases.
- Detect the current problems facing feed industry and suggest the appropriate solutions.
- Apply all professional skills and use the appropriate technological means in nutrients requirements calculation
- 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 animal nutrition.
- Commit the moral and legal rules of nutrition specialist.
- Aware the importance of self development and continuous learning in the field of animal nutrition and prevention of deficiency diseases.

3- Intended Learning Outcomes:

a- Knowledge and Understanding

By successful completion of the course, the student should be able to:

a1. Recall information about animal nutrient requirements, animal feed stuffs and bases of animal feed formulation.

a2. Outline specialized theories and knowledge in the field of animal nutrition and related sciences.

a3. Identify the legal and moral rules in practices targeting diagnosis of animal nutritional disorders.

a4. Specify the different quality management systems in animal feeding practices.

a5. Recognize the role of his/her professional practices in community development and environmental conservation.

a6. Describe the different 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 facing animal nutrition and arrange them according to their priorities.
b2. Suggest the appropriate solutions for problems related to feed industry.
b3. Make scienti c reading and analysis of research papers and topics related to nutritional deficiencies.
b4. Asses di erent nutritional factors for each practice related to digestibility and requirements.
b5. Take decisions using the available information.
b6. Plan for diagnostic scheme application in di erent ration formulation conditions and develop an approach to solve a field problem.

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 diagnosis of animal nutritional disorder.
c2. Prepare a sheet for field case history and write a nutritional report.
c3. Demonstrate all essential nutrients, nutritional requirements, feeding systems and high quality ration 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 self and learn how to detect his/her learning requirements.
d4. Use different facilities for gaining knowledge and information.
d5. Learn how to work e ectively as part of a team properly manages the time.
d6. Lead teamwork e ectively.
d7. Understand the signi cance and means of continuous self learning.

4- Course Contents:

Week	Course description	Total (hr)	Lectures (hr)	Practical (hr)
1-3	**Animal nutrition fundamentals** **Composition of the animal body and its food**	3	3	-
4-7	**Water and its metabolism** **Carbohydrates and their metabolism** **Proteins and their metabolism** **Lipids and their metabolism.**	4	4	-
8-11	**Minerals- macro & microelements** **- Introduction, distribution, functions** **- Deficiencies, supplements**	4	4	-
12-15	**Vitamins** **- Vitamin and animal health** **- Fat-soluble vitamins** **- Water-soluble vitamins**	4	4	-
16-18	**Feed intake and factors affecting**	3	3	-
19-21	**Digestion & absorption** **Digestibility of feeds**	3	3	-
22-23	**Feeding standards and nutritional requirements for:** **-maintenance** **-growth** **-fattening**	2	2	-
24-26	**-reproduction and lactation** **-work production** **-wool production**	3	3	-
27-29	**Feeding farm animals** **-Feeding dairy cows and calves** **-Feeding buffalos**	3	3	-
30-31	**-Feeding sheep and goat** **-Feeding camel**	2	2	-
32-33	**-Feeding equine**	2	2	-
34	**Feed additives-** **-Introduction**	1	1	-
35-36	**-Nutritional feed additives** **-Non Nutritional feed additives**	2	2	-
1-4	**Feedstuffs** **- Classification of feedstuffs** **- Nutrition terms**	8	-	8

5-9	**-Concentrates as energy sources & deleterious factors** **-Plant protein sources & deleterious factors**	10	-	10
10-12	**-Animal protein sources and deleterious factors** **-Forage and roughage**	6	-	6
13-16	**-Feed processing and manufacture**	8	-	8
17-20	**Ration formulation for animals and poultry**	8	-	8
21-23	**Feedstuffs analyses** **-Physical inspection**	6	-	6
24-28	**-Microscopical examination** **-Chemical analyses** **-Using standard feed analyses tables**	10	-	10
29-31	**Animal feed safety and feed manufacturing** **-Feed contaminants and its sources**	6	-	6
32-34	**-Environmental factors inducing feed deterioration** **-Mycotoxins and its importance** **-Pesticides**	6	-	6
35-36	**-Heavy metals** **-Feed manufacturing quality assurance and its monitoring**	4	-	4
	Student activities: - **Writing assays** - **Internet search**	-	-	-
	Total	108	36	72

5- Teaching and Learning Methods:	• **Lectures:** Depends on the sharing efforts of the students and supported with macromedia and multimedia aids. • **Practical sections:** - Identification of feedstuffs and their evaluation. - Laboratory feed inspection and chemical analysis. - Requirements calculation and ration formulation. • **Self learning:** Electronic learning, Seminars, scientific search on related websites, international, national and local journals, related books in faculty library. • **Training visits**: Visits to poultry farms and poultry feed processing plants. • **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 1st year	**Week: 37, 38, 38**	**50**	**a1 to a6** **b1 to b6**
b) **Practical exam** by the end of 1st year	**Week: 36**	**30**	**a1 to a6** **b1 to b6** **c1 to c3**
c) **Oral exam** by the end of 1st year	**Week: 37, 38, 38**	**20**	**a1 to a6** **b1 to b6** **c1 to c3** **d1 to d7**

8- List of References:

a- Course notes:	**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** **Textbook of Human Nutrition and Animal Byproducts.**
b- Essential books:	**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.** .

c- Recommended books	**a- Cheeke, P.R. (1987): Rabbit Feeding and Nutrition.** **b- National Research Council (1988): Nutrient Requirements of Dairy Cattle, 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.** **e- Frappe, D. (1998): Equine Nutrition And Feeding .2nd ed.**
d- Periodicals, websites,…….etc	**Journals** **-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** **-Journal of Dairy Science** **-American Journal of veterinary research** **- Research on veterinary Science** **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**

Course Coordinator **Head of Department**

Name: Dr. Ibrahim M. Ibrahim **Prof. Dr. Elham Saleh**
Sig. :

Date :

National Authority For Quality Assurance and Accreditation of Education

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

Course title : Poultry and Rabbit Diseases
Course code: D11-D

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**	**1-3**	**a1, a2, a3**	**b1,b2,b3,b6**	**-**	**d1, d2**
2	**Water and its metabolism** **Carbohydrates and their metabolism** **Proteins and their metabolism** **Lipids and their metabolism.**	**4-7**	**a1, a2, a3**	**b1,b2,b3**	**-**	**d1, d2**
3	**Minerals- macro & microelements** **- Introduction, distribution, functions** **- Deficiencies, supplements**	**8-11**	**a1, a2, a3**	**b1,b2,b3**	**-**	**d1, d2**
4	**Vitamis** **- Vitamin and animal health** **- Fat-soluble vitamins** **- Water-soluble vitamins**	**12-15**	**a1, a2, a3**	**b1,b2,b3**	**-**	**d1, d2**
5	**Feed intake and factors affecting**	**16-18**	**a1, a2, a3**	**b1,b2,b3**	**-**	**d1, d2**
6	**Digestion & absorption** **Digestibility of feeds**	**19-21**	**a1, a2, a3**	**b1,b2,b3**	**-**	**d1, d2**
7	**Feedstuffs** **- Classification of feedstuffs** **- Nutrition terms**	**1-4**	**a1, a2, a3**	**b1,b2,b3**	**-**	**d1, d2**
8	**-Concentrates as energy sources & deleterious factors** **-Plant protein sources & deleterious factors**	**5-9**	**a1, a2, a3**	**b1,b2,b3**	**-**	**d1, d2**
9	**-Animal protein sources and deleterious factors** **-Forage and roughage**	**10-12**	**a1, a2, a3**	**b1,b2,b3**	**-**	**d1, d2**
10	**-Feed processing and manufacture**	**13-16**	**a1, a2, a3**	**b1,b2,b3**	**-**	**d1, d2, d3**
11	**Feeding standards and nutritional requirements for:** **-maintenance**	**22-23**	**a1, a2, a3**	**b1,b2,b3**	**-**	**d1, d2, d3**

	-growth **-fattening**					
12	**-reproduction and lactation** **-work production** **-wool production**	**24-26**	**a1, a2, a3**	**b1,b2,b3**	**-**	**d1, d2**
13	**Feeding farm animals** **-Feeding dairy cows and calves** **-Feeding buffalos**	**27-29**	**a1, a2, a3**	**b1,b2,b3**	**-**	**d1, d2**
14	**-Feeding sheep and goat** **-Feeding camel**	**30-31**	**a1, a2, a3**	**b1,b2,b3**	**-**	**d1, d2**
15	**-Feeding equine**	**32-33**	**a1, a2, a3**	**b1,b2,b3**	**-**	**d1, d2**
16	**Ration formulation for animals and poultry**	**17-20**	**a1, a2, a3**	**b1,b2,b3**	**-**	**d1, d2**
17	**Feed additives-** **-Introduction**	**34**	**a4, a5**	**b6,b7,b9**	**c2,c5**	**d3, d4, d5,d7,d8,d9**
18	**-Nutritional feed additives** **-Non Nutritional feed additives**	**35-36**	**a3**	**b3,b4**	**c2,c5**	**d3, d4, d5,d7,d8,d9**
19	**Feedstuffs analyses** **-Physical inspection**	**21-23**	**a5**	**b1,b2**	**c1, c2, c3,c4**	**d3, d4, d5**
20	**-Microscopical examination** **-Chemical analyses** **-Using standard feed analyses tables**	**24-28**	**a2, a4, a5**	**b1,b2,b8,b9**	**c1, c2, c3,c4**	**d3, d4, d5,d7,d8,d9**
21	**Animal feed safety and feed manufacturing** **-Feed contaminants and its sources**	**29-31**	**a2, a4**	**b1,b2,b4**	**c1, c2, c3,c4**	**d2, d4, d5**
10	**-Environmental factors inducing feed deterioration** **-Mycotoxins and its importance** **-Pesticides**	**32-34**	**a1, a2, a3**	**b1**	**c1, c2, c3,c4**	**d2, d4, d5**
11	**-Heavy metals** **-Feed manufacturing quality assurance and its monitoring**	**35-36**	**a3,a4, a5**	**b1,b2**	**c1, c2, c3,c4**	**d2, d4, d5**
Student activity		**Along the course**	**a1, a2, a3, a4**	**b1, b2, b3**	**c3, c4**	**d1, d2, d3, d4,d7**

Beni-Suef University
Faculty of Veterinary Medicine

Course specification of postgraduate

1-Basic information

Course Code:	D11- A
Course title:	**Animal Hygiene**
Program title:	Diploma of Vet. Med. Sciences (Animal management)
Contact hours/ week	**2 hours/ week (Lec.1 h./week, Pract. 1h./week)**
Approval Date	

2-Professional information

Overall aims of course:

This course aims to:

1- Apply the advanced methods of animal housing design.
2- Assess the hygienic and health problems in veterinary field, Principles of prevention and control of animal diseases.
3- Solving a problem related to animal management.

3- Intended learning outcomes of course (ILOs)

a- Knowledge and understanding:

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

a1. Define the terms of hygiene, environmental stressors and sanitation.
a2. Realize methods used for disposal of waste, prevention, control and eradication of insect and diseases.
a3. Describe the role of the veterinarian in improving animal and environmental health.
a4. Explain the environmental component in transmission of diseases to animals.
a5. Discuss the relation between hygiene and disease occurrence.
a6. Mention the problems in the different animal farms related to stressors, transportation of animals and management.

b- Intellectual skills

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

b1. Collect and analyze data about disease occurrence, distribution and risk factors.
b2. Judge the efficiency of farm hygiene in animal production farms.
b3. Investigate the hygienic problems in livestock field.
b4. Judge on the most important diseases affecting different animals and man.
b5. Able to interpret between agent – host – environment and the interaction of disease. determinants herd immunity and causation of diseases.
b6. Evaluate methods of assessing the economic benefits of diseases control.
b7. Design a strategy for disease prevention, control and eradicate infectious diseases.

c- Professional and practical skills

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

c1. Able to detect the disease events precisely.
c2. Examine the different methods for assessing the environmental role on occurrence of

Course specification of postgraduate

diseases.
c3. Estimate disease occurrence (pattern and frequency).
c4. Collect samples from the affected populations for further investigations to ascertain the disease.
c5. Monitor the different important hygienic problems associated with intensive animal production in Egypt.
c6. Apply the basis of disease control in animal production farms.
c7. Examine the best methods for solving health problems of animal production farms in addition to problems facing animals during transportation.

d- General and transferable skills

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

d1. Design a plan for solving environmental problem.
d2. Utilize group working in diseases prevention and control.
d3. Able to communicate with specialists.
d4. Participate in private business.
d4. Use computer and internet skills in communication and presentation.
d5. Use statistical methods for analysis of the obtained data.

4-Topics and contents

Course	Topic	weeks	No. of hours	Lectures	Practical
(Lec. h./week, Pract h./week) Course Title: Animal Hygiene (Lec.1 h./week, Pract. 1h./week)	Introduction	1st	2	2	-
	Environmental Hygiene	2nd -12th	21	10	11
	Environmental stressors	12th -17th	12	6	6
	Disposal of animal wastes	18th -20th	6	3	3
	Epidemic diseases and environnemental management	21th – 23th	6	3	3
	Transportation of animals	24th -25th	3	3	-
	Disinfection and disinfectants	25th -31th	13	3	10
	Control of insects and rodents	32th – 36th	9	3	6
	Student activities	-	-	-	-
	Total	36	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)

- 5.3- Practical (models, summer training course, training visits: to animals and poultry farms)

Course specification of postgraduate

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	a.1-a.2-a.3- a.4-a.5-a.6-a.7.	b.1.- b.2.-b.3-b.4.- b.5-b.6-b.7		
Practical Exam			c.1-c.2-c.3-c.4-c.5.-c.6-c.7-	d.2, 3, 4, 5.
Oral Exam	a.1-a.2-a.3 a.4-a.5-a.6- a.7.	b.4.- b.5-b.6	c.1, c2.-c.3.c7.	d1

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. Veterinary Epidemiology. Principals and Methods. **Martin, S. W.; Meek, A. H. and**

Course specification of postgraduate

Willeberg, P. (1987): Iowa State University Press, Ames.
2. Farm Animal Health. A practical Guides. **Cullen, P.T. (1991**): 1st Ed.
3. Pollution in Livestock Production Systems. **Dewi, A.P.; Axford, R. F. E.; Marai, I. F. M. and Omed, H. (1994**): CAB International. Wallingford, UK.

Animal Health. **Geer, B. K. (1980):** A Layman`s guide to disease control. 2nd ed.Interstate printers and Publishers, USA

8.3. Recommended texts

1. Pollution Science. **Pepper, I. L.; Gerba, C. P. and Prussea, M. L. (1996):** Academic Press, Inc., California, and USA.

Poultry Health and Management. **Sainsbury, D. (1993):** 3rd Ed. Blackwell, Scientific Publication, U.k.

8.4. Journals, Websites ……..etc

Journals:

- Journal of Animal Science
- Journal Toxicology and Environmental Health
- J. Environmental monitoring and assessment
- Environmental pollution

Websites:

www.educations.com……

www.thepigsite.com/

www.disinfectants1.com

www.rvc.ac.uk

www.educations.co

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	Introduction	1st	a1			
2	Environmental Hygiene	2nd -12th	a1,a4,a5	b2,3	C2,4,5	d1
3	Environmental stressors	12th -17th	a1,a5	b3	C2,4,5	d1
4	Disposal of animal wastes	18th -20th	a2	b6	c7	d1
5	Epidemic diseases and environnemental management	21th – 23th	a5	b1,b4,b5	C1,c3,c6	d2,d5
6						
	2nd semester					
10	Transportation of animals	24th -25th	a6	b7	c7	d2
11	Disinfection and disinfectants	25th -31th	a3	b6	c7	d1
12	Control of insects and rodents	32th – 36th	a2	b3,b6	c7	d2
13	Student activities	During the course	a1,2	b1	c1	d1,2,3,4,5
14						

Beni Suef University
Faculty of Veterinary Medicine
Department of physiology

Course specification

1-Basic information	
Course title :	**Physiology of reproduction**
Academic year:	**2017-2018**
Programme title:	**Diploma of reproduction**
Contact hours/week/semester:	Lecture:2 Tutorial: 0 Practical: 1 Others:0 Total: 3

2-Professional information

Overall aims of course

a-To ensure that students reserve a scientific base in veterinary reproduction**.**

b-To provide students with the ability to advance biotechnology techniques in animal production.

- Intended learning outcomes of course (ILOs)

a-Knowledge and understanding

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

a1-Summarize the anatomical, physiological and hormonal aspects of reproductive system..

a2-Discuss the physiology of sexual intercourse and its effects on the reproductive system of male and female.

a3-Describe the process of fertilization.

a4-Explain the relationship between different hormones & development and specify the various stages of development & its regulation.

a5-Understand the prenatal periods & describe the major events associated with each.

a6-Relate the stages of parturition to the hormonal control.

b-Intellectual skills

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

b1-Deal with ethical and professional issues pertaining to animal research.
b2-Compare between prenatal periods and events associated with each.
b3-Design an interplay between the maternal organ system and the developing fetus..

c-Professional and practical skills

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

c1-Collect vaginal smear and examine it.
c2-Examine ovaries and detect the stages of follicular and luteal phases.
c3-Undertake advanced laboratory techniques used in animal production as IVM and IVF.

d-General and transferable skills

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

d1- Communicate effectively with public, colleagues and appropriate authority.
d2-Work effectively as a member of a team in delivering the services to community.
d3-Utilize communicating skills and have access to the internet and retrieve the information.
d4-Be committed to ongoing learning and self evaluation.
.**d5-**Respect his profession and encourage cooperation with colleagues.
d6-Be kind with animals during experimentation and sacrification**.**
d7-Apply the veterinary code of practice including ethics**.**

3-Topics and contents

Topics	No. of hours	Lectures	Practical
Structure and function of reproductive system	36	24	12
Hormonal changes during reproductive cycle			
Sexual intercourse	30	20	10
Fertilization	30	20	10
Development & pregnancy	30	20	10

Parturition	30	20	10
Total	**156**	**52**	**104**

4-Teaching and learning methods

4.1 Lectures.
4.2 Practical courses.
4.3 Computer search.
4.4 Seminars.

5-Teaching and learning methods for students with special needs.

- Students with special needs are strongly encouraged to talk to the instructors as soon as possible to gain maximum access to course information. All discussions should remain confidential.
- University policy is to provide, on a flexible and individualized basis, reasonable accommodations to students who have documented disability conditions (e.g., physical, learning, psychiatric, vision, hearing, or systemic) that may affect their ability to participate in course activities or to meet course requirements.

Students with disabilities are encouraged to contact Disability Services and their instructors to discuss their individual needs for accommodations.

6-Student assessment

6.1.Assessments methods

Method	Matrix alignment of the measured ILOs/ Assessments methods			
	K&U (a)	I.S (b)	P&P.S (c)	G.S (d)
Written exam	al -a6	b, b2		
Oral exam		b1 -b3		
Practical exam			c1-c3	

6.2-Assessment schedules/semester

Assessments methods	Time of Assessments
Assessment1 Written:	**Last week in January or April**

Assessment 2 Oral:	**Last week in January or April**
Assessment 3 Practical:	**Last week in January or April**

6.3-Weight of assessments

Assessment	%	Allocated Mark Total
Final term examination	50	
Oral examination	20	
Practical examination	30	
Total		**100%**

7- List of references

7.1. Departmental Notes

Course notes: Student handbook of physiology part II prepared by the department staff members.

7.2Essential books

* Ruminant Physiology. F.B. Cornje 2000.
* Animal physiology. ITTA Sambasiviah, A.P. Kamalakara RAO and S. Augustine Chellappa 1987.
* Physiology of Domestic Animals. William O. Reece 1991.
* Principles of Anatomy and Physiology. 4th edition. Gerard J. Tortora – Nicholas P. Anagnostakos 1975.

7.3- Recommended books

* * * 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.

7.4. Journals , Websites ……..etc

Journals:

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* Egyptian J. of Basic and Applied Physiology. Cairo, Egypt.
* Neni Suef Vet. Med. J., Neni Suef, Egypt.

Websites:

1. Pubmedmidline.
2. U-Tube
3. www.Bnsvet.com

8- Other Resources / Facilities required for teaching and learning to achieve the above ILOs
(for example, Field trips).....

9- We certify that all of the information required to deliver this course is contained in the above specification and will be implemented

Course coordinator

Dr / Nermeen Atef

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Date:

Head of department:

Prof. Dr / Ahmed Hashem El-Anwar
Date:

Beni Suef University
Faculty of Veterinary Medicine
Department of physiology

Matrix alignment of course topics and `ILOs

Topic	No. of hours /weeks		No. of weeks	Total hours	Hours for lecture	Hours for practical	K.U(a)	I.S(b)	P.P.S (c)	G.T.S (d)	Lect.	Pract.	Computer search	seminars
	Lect.	**Pract.**												√
Structure and function of reproductive system	**2**	**1**	**12**	**36**	**24**	**12**	**a1, a2**	**b1**	**c1,c2**	**d1-d7**	√	√		√
Hormonal changes during reproductive cycle	**2**	**1**	**4**	**12**	**8**	**4**	**a1, a4, a6**	**b1**	**c2,c3**		√	√	√	
Sexual intercourse	**2**	**1**	**2**	**6**	**4**	**2**	**a2**	**b1**	**c3**	**d1-d7**	√	√		√
Fertilization	**2**	**1**	**9**	**27**	**18**	**9**	**a3**		**c3**	**d1-d7**	√	√	√	√
Development & pregnancy	**2**	**1**	**12**	**36**	**24**	**12**	**a4,a5**	**b2,b3**	**c3**	**d1-d7**	√	√	√	√
Parturition	**2**	**1**	**8**	**24**	**16**	**8**	**a6**	**b3**	**C2**	**d1-d7**	√	√	√	√
Final exam.			**1**											
Total			**48**	**141**	**94**	**47**								