Beni-Suef University
Faculty of Veterinary Medicine
Department of Animal and poultry Management and Wealth Development

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Program Specification for Master Degree
2017-2018

A-Basic information:

1- Program title: *MVSC.,*
2- Program type: *Single*
3- Department offering program: Department Council: Animal and poultry Management and Wealth Development
4-Academic year: *2017-2018*
5-Approval date of Faculty Council:

B-Professional information:

1-Overall aims of the program:

-Enable graduates to develop practical research project and achieve competency in modern laboratory technology.
-Collect, manage and analyze the scientific data of animal, poultry and fish behavior.
-Detect and solve the managerial problems based on scientific and research evidence.
-Use efficiently and improve the available resources for high animal production achievements.
- update recent research , create and manage a scientific environment based on animal and poultry behavior and management information .
-Write scientific reports and papers and apply for scientific projects.
-Provide graduates the opportunity to develop communication skills.

2- Intended learning outcomes of course (ILOs):

a- Knowledge and understanding:

On successful completion of this program the graduate should be able to :

a.1- Outline the advanced concepts in animal and poultry behavior and management and other career related sciences.

a.2- Distinguish the professional managerial techniques in animal and poultry farms and their relation to environmental protection.

a.3-Underline up to date researches and applications of behavior and related changes in physiological parameters in poultry, farm and laboratory animals.

a.4- Identify efficiently ethics of animal rearing and research.

a.5- Characterize quality principles and basics in poultry and animal management.

b- Intellectual skills:

On successful completion of master program the graduate should be able to:

b.1- Evaluate analytically the animal and poultry abnormal behaviors for solving mismanagements in animal and poultry farms.

b.2- Solve managerial problems with inadequacy of some resources.

b.3- Design a scientific research plan.

b4- Critically evaluate their own research data and develop new approach to solving their research questions.

b5-Evaluate risks of stress on animal and poultry health and performance.

c- Professional and practical skills:

On successful completion of this program the graduate should be able to:

c1- Perform masterly the recent professional practice in the field of animal and poultry management and behavior.

c2- Write the behavioral reports of animal and poultry in relation to physiological changes .

c3- Evaluate the available and required material, tools and equipment in animal and poultry behavior and management research projects.

c4- Write efficiently scientific paper and dissertation.

d- General and transferable skills:
On successful completion of this program the graduate should be able to:

d1- Communicate effectively and use of information technology in the development of animal and poultry professional practice.

d2- Own Self-evaluation and need assessment.

d3- Utilize different available resources for efficient obtaining of knowledge and information.

d4- Issue the regulations and indicators for performance evaluation.

d5- Mange time efficiently.

3- Academic standers:

* 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 (March 2009) Master 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- Program Structure and Contents

A- Program duration: At least two academic years from the approval of registration by the Faculty Council and maximum four years. The faculty council has the right to give the applicant another period not excced two years according to the supervisor request
The first year for preliminary courses study, while the second year for researches and preparation of the Master Thesis.

B- Program structure: Hours/ week:

Basic course:-

4	7	11

Theoretical Practical Total

Subsidiary courses:-

Theoretical | 4-8 | Practical | 6-8 | Total | 10-16

☒ **Master Thesis: completed during the second academic year.**

C- Program courses:

1- basic courses

Code	Course title	Hours /week		Academic year	Teaching duration
		theoritical	practical		
	Master Principal course	3	4	Preliminary year	36 weeks
	Research methods	1	3	Preliminary year	36 weeks

2-subsidiary courses

Code	Course title	Hours /week		Academic year	Semester
		Theoritical	practical		
	Selected (3-5) courses depending on the thesis title from the various Faculty Master courses other than specialty of the Master.	5-6	6-9	Preliminary year	36 weeks

D- Courses contents

See master courses specification

5- Program Admission Requirements

a- According to the Faculty of Veterinary Medicine, Beni-Suef University Bylaws for Post Graduate Programs, applicants should have BVSc., from an Egyptian

University or equivalent degree from any approved university, with at least general grade (Good) and (Very Good) in the specialized subject.
b- Also if the student has postgraduate diploma in one specialization of total (3 hours) at least with general grade (Good) and (Very good) in the specialized subject.
c- According to Beni-Suef University requirements, all applicants for postgraduate studies should fulfill preliminary courses on the following subjects:
I- English language (Toefl or equivalent degree)
2- Computer skills (ICDL) or equivalent computer course.
d- Admission to the program is open during March and September annually after at least one year from the BVSc degree.

6. Regulations for Progression and Program Completion

After finishing the preliminary courses, the graduate student will be eligible to sit for the examination according to the following roles:

No. of course teaching hours/ week	Allowed time for written exam.	Degree	
		Theoretical	Practical and oral exam
≥ 3 hours	3 hours	50%	50%
≤ 3 hours	2 hours	25%	25%

- It is mandatory to pass all the courses each chance except biostatic (212)
-The passing mark in each exam is ⩾ 60%.
-The faculty council has the right to deprive the applicant from entering the exams if his attendance courses is less than 75% .

Qualification grades:

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

-After passing, the graduate starts research for Master Thesis at the beginning of the second year.
-The candidate will receive his degree after evaluating and approving the thesis by a committee according to University regulations.
-The applicant should publish one scientific papers from the thesis in local or international journals

7-Graduate student assessment

A: Assessment Tools

According the Faculty of Veterinary Medicine, Beni-Suef University Bylaws for Post Graduate, students should be assessed at the end of preliminary year and the thesis should be evaluated and approved by a committee according to University regulations.

1-Preliminary year

Assessments methods for each course	**practical exam**	**Oral exam**	**Written exam**
Time of Assessments	By the end of the year	By the end of the year	By the end of the year
Marks	25	25	50

2-Master Thesis:

All master-degree students should prepare a thesis in behavior and management The department council must approve the protocol (plan) of the research. The thesis is supervised by one or more staff members and may include other specialties according to the nature of the research. The thesis should be evaluated and approved by a committee according to University regulations.The applicant should publish at least one scientific paper from the thesis in local or international journals

B- Matrix alignment of the measured ILOs

Course coordinator **Head of the Department**

Assessments methods	Matrix alignment of the measured ILOs			
	K&U (a)	I.S (b)	P&P. S (c)	G&T. S (d)
written exam	a1-a5	b1,b5	c2	d5
Practical exam	a2	b1, b2,b4	c1,c2,c3	d1,d2,d5
Oral exam	a1-a5	b1,b2,b5	c1,c2	d1,d5
Assessment and evaluation form		b3	c4	d3,4

Academic standers with program ILOs matrix

Academic standers **Program ILOs**		**Knowledge and understanding**						**Intellectual skills**							**Professional and practical skills**				**General and transferable skills**						
		a1	a2	**a 3**	**a 4**	**a5**	**a6**	**b1**	**b 2**	**b 3**	**b4**	**b 5**	**b6**	**b 7**	**c1**	**c2**	**c3**	**c4**	**d1**	**d2**	**d3**	**d4**	**d5**	**d 6**	**d7**
Knowledge and understanding	a1	×																							
	a2	×	×																						
	a3			×																					
	a4				×		×																		
	a5					×																			
Intellectual skills	b1							×		×															
	b2								×																
	b3										×														
	b4													×											
	b5											×	×												
Professional and practical skills	c1														×										
	c2															×									
	c3																×								
	c4																	×							
General and transferable skills	**d1**																		×						
	d2																			×				×	
	d3																				×				
	d4																					×			
	d5																						×		×

Master Program Specification Matrix (Program Courses with ILOS)

Program ILOs		courses
Knowledge and understanding	a1	M44,45,46,47,48
	a2	M193
	a3	M29,73,75 Thesis
	a4	M47 Thesis
	a5	M44,45,46,47,48
Intellectual skills	b1	M44,45,46,47,48
	b2	M44,45,46,47,48
	b3	Thesis
	b4	Thesis
	b5	M29,73,75
Professional and practical skills	c1	M44,45,46,47,48
	c2	M29,73,75
	c3	M44,45,46,47,48

	c4	44,45,46,47,48 ,Research methods Thesis
General and transferable skills	**d1**	M44,45,46,47,48
	d2	44,45,46,47,48 ,Research methods and Thesis Thesis
	d3	44,45,46,47,48 ,Research methods and Thesis Thesis
	d4	44,45,46,47,48 , Research methods and Thesis 44,45,46,47,48 ,Research methods and Thesis Thesis
	d5	44,45,46,47,48, Research methods and Thesis Thesis

ILOS	Aims of master program						
	Enable graduates to develop practical research project and achieve competency in modern laboratory technology.	**Collect, manage and analyze the scientific data of animal, poultry and fish behavior.**	**Detect and solve the managerial problems based on scientific and research evidence.**	**Use efficiently and improve the available resources for high animal production achievement.**	**Update the recent research and Create and manage a scientific environment based on animal and poultry behavior and management information**	**Write scientific reports, papers and apply for scientific projects.**	**Provide graduates the opportunity to develop communication skills.**
a1	*			*			
a2	*			*			
a3					*		
a4			*	*			
a5		*	*	*			
b.1-	*		*				
b.2			*				
b.3-					*		
b4-	*				*	*	
b5-			*	*			
c1					*	*	
c2						*	
c3	*						
c4						*	
d1							*

d2	*					*	
d3				*	*		
d4						*	
d5						*	

Course coordinator **Head of the Department**

Course specification

1-Basic information

Course Code:	MBC-BEHA
Course title :	Animal and poultry Management and Wealth Development
Program title:	B.V. Sc. (Veterinary Medical Sciences)
Contact hours/ week	7 hours/week, (3 Lect./week, 4 Practical/week)
Approval Date	

2-Professional information

Overall aims of course:

This course aims to:

1- Define the basics to improve animal and poultry wealth by understanding their behavior and application of different management techniques.
2- Distinguish between normal and abnormal behaviour.
3- Identify different methods of animal management.
4- Practice advanced methods of the animal manipulation, securing and dentition.
5- Differentiate perfectly between healthy &diseased animals.
6- Determine different animal aging and identification o different animal species.

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 different managerial systems providing animal and poultry welfare.
a2- Write different body parts of animals and poultry.
a3- Mention evolution of behaviour, motivation and its organization.
a4- Give examples for different types of animal behaviour.
a5- List common terms, breeds and marks of different animal species.
a6- Enumerate methods of animal marking and identification.

b-Intellectual skills

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

b1- Choose the best management systems for different animal species.
b2-Differentiate between normal and abnormal behaviours in each animal species.
b3- Distinguish the healthy animal from diseased one.
b4- Practice animal and poultry behavior analysis

c-Professional and practical skills

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

c1- Perform the personal observation and evaluation of animal behaviour.
c2- Determine the animal age.

Course specification

c3- Apply the best methods used for animal securing and the most practiced stable management techniques and administration of medicine.

c4- Detect the possible causes and remedies for abnormal behaviour.

d-General and transferable skills

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

d1- Work in a group.

d2- Manage time.

4-Topics and contents

Topic	No. of hours	Lectures	Practical
- General behaviour	12	10	22
Management and Behaviour of Equines -	12	10	22
Management and Behaviour of Cattle -	12	10	22
-Management and behaviour of Sheep & Goat	10	10	20
-Points of farm animals	4	4	8
-Manipulation and restraint of animals and casting of animals	4	6	10
- Stable management of animals and shoeing	4	4	8
- Practical Management Practices	4	4	8
-Management and Behaviour of Poultry	4	12	16
-Management and Behaviour of Laboratory Animals	6	8	14
-Management and Behaviour of Camel	6	6	12
-Management and behaviour of Dogs	6	6	12
-Management and Behaviour of Cats	6	6	12
-Dentition and Ageing of animals	4	12	16
-Signs of health	4	12	16
-Administration of medicine	4	12	16
-Behavioural anomalies and control	6	12	18
Total	108	144	252

5-Teaching and learning methods

Course specification

5.1- Lectures (brain storm, discussion) using board, data shows and multimedia aids.
5.2- Self learning by preparing essays and presentations (computer researches and faculty library)
5.3- Practical (in animal and poultry farms).
5.4- Farm visits.

6-Teaching and learning methods for the students with disabilities

Office hours, special meetings

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,a3, a4,a5,a6	b1,b2	c3,c4	d2
Practical Exam	a2	b3, b 4	c1,c2,c3,c4	d1, d2
Oral Exam	a1,a3, a4,a5,a6	b1,b2	c1,c2,c3,c4	

7.2. Weight of assessments:

Assessment	Weight of assessment
Practical exams	30
Final exams	50
Oral exams	20
	100%

8- List of references

8.1. Notes and books

Departmental notes (filing number: 3546/2003) on:
- Textbook of Animal Behaviour and Management (part1)
-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:

-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)

Course specification

-Cattle Behaviour and Welfare (Phillips, C.)
-Animal Behaviour (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.)
These books are available at the library of faculty of veterinary medicine- Beni Suef

- 8.3. Recommended texts

-Farm animal behaviour.characteristics for assesment of health and welfare (Ekesbo)
-Hand book of laboratory animal science, volume 1,3rd edition:essential principles and practices (Jann Hau and Steven Schapiro)
-Animal intelligence from individual to social cognition.(Zhanna Reznikova)
-Scientific assesment and management of animal pain,technical series vol.10,2008.(D.Mellor,P.Thomber,D.Bayvel&S.Kahn.)
-Vibrational communication in animals.(Peggy S.M. Hill)
-Field and laboratory exercise in animal behaviour.(Chadwick Tillberg)
-Obseving animal behaviour.(Marian Stamp Dawkins)

8.4. Journals, Websites ……..etc

Journals:

- Behaviour
- Animal Behaviour
-Applied Animal Behaviour Science
- Journal of Behaviour and Hormones
- Animal Breeding Abstracts
- Poultry Science
- Journal of Animal Science
- Journal of Dairy Science
- Journal of Dairy Researches
- journal of Animal Production
- Canadian Journal of Animal Science
- British Journal of Poultry Science
- Animal Reproduction Science

Theriogenology -

- Livestock Production Science

Websites:

- American Association of Dairy Science
-American Association of Animal Science

Course Coordinators **Head of Department**

Course specification

Dr. Fatma Hanafy Sayed Khalil **Prof.Dr. Hosny Hafez Emeash**

Course specification

Topic	Week	Intended learning outcomes of course (ILOs)			
		K&U (a)	I.S (b)	P.P.S (c)	G.T.S (d)
General Behaviour	1-3	3,5	2	1	1,2
Management &Behaviour of Equines	4-6	1,4,6	1,2		1,2
Management &Behaviour of Cattle	7-10	1,4,6	1,2		1,2
Management and behaviour of sheep & goat	11-13	1,4,6	1,2		1,2
Management &Behaviour of poultry	14-16	1,4	1,2		1,2
Management &Behaviour of laboratory animals	17-19	1,4,6	1,2	3	1,2
Management &Behaviour of camels	20-22	1,4	1,2		1,2
Management &Behaviour of dogs	23-25	1,4	1,2		1,2
Management &Behaviour of cats	26-28	1,4	1,2		1,2
Points of farm animals	29-30	2			1,2
Manipulation and restraint of animals	30-31			3	1,2
Casting of animals	32-33			3	1,2
Stable management of animals	34-35			3	1,2
Practical management practices	36			3	1,2
Shoeing	1-3			3	1,2
Dentition and Ageing of animals	1-4			2	1,2
Signs of health	5-6		3		1,2
Administration of medicine	7-9			3	1,2
Behavioural anomalies and control	10-13		2	1,4	1,2

Beni-Suef University
Faculty of Veterinary Medicine

Course specification of postgraduate

1-Basic information

Course Code:	M-44
Course title :	Behaviour and Management of Ruminant Animals (cattle- buffaloe, sheep, goat, camels)
Program title:	Master
Contact hours/ week	Lecture: 2 practical : 3 Total: 5
Approval Date	

2-Professional information

Overall aims of course:

This course aims to:

- Distinguish different breeds of ruminants .
- Properly understanding the basics and methods of scientific research and the use of its different tools.
- Application of the analytical method of ruminant behaviour.
- Application of specialized practical management techniques in ruminant farms.
- Full awareness of most current problems and modern visions in ruminant farms.

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. list species of ruminants.
a2. Specify general characters of ruminants species.
a3. Record special behavior of ruminants.
a4.Illustrate special managements of ruminants.
a5.Name the suitable method for ruminants handling and restraint.
a.6. Determine age of ruminants.
a. 7.list breeding systems of ruminants.
a8. Define animal health and methods of drug administration to ruminants.

b-Intellectual skills

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

b.1- Identify characters of each ruminants species.
b.2-Interpret normal behavioral data of ruminant.
b.3- Correlate behavioral alterations with managements
b.4-Adopt restraint methods with each animal temperament.
b5. Decide culling of ruminant based on their age.
b6. Relate abnormal behavior with mismanagements of ruminant.

Course specification of postgraduate

b7. Interpret ruminant health .
b8. Adopt method of drug administration according to health status and age of ruminant.

C- Professional and practical skills

By the end of this course the student should be able to:
c.1. Advise ruminant farms with suitable breeds according to aim of production.
c2. Write identification certificate for different breeds of ruminant and their special characters.
c3. Use behaviour as indicator of proper management and housing of ruminant.
c4. Practice the professional skills of ruminant management.
c.5. Perform methods for animal approach and handling, securing of ruminant.
c.6. Interpret and evaluate health status reports of ruminants.
C.7. Manage ruminant based on sex and age.
c.8.Examin animals professionally by advanced methods and evaluate their health status report.
c9. Perform advanced methods of drug administration to ruminant.

d- General and transferable skills
By the end of studying the course, the student should be able to:
1- Communicate effectively and utilize the advanced information technology for the improvement of management of equine farms.
2- Utilize the resources to obtain knowledge and information.
3- Work in research group and lead a team work in different veterinary professional and research practice.
4- Manage the scientific seminar, meetings and discussions.
5- Manage the time efficiently.

4-Topics and contents

Course	Topic	No. of hours	Lectures	Practical
(Lec. h./week, Pract h./week)	- Breeds of small and large ruminant	6	6	0
	Description and identification • Writing certificate	12	12	0
	Behavior of small and large ruminant: • Normal behavior of small and	16	16	0

Course specification of postgraduate

	large ruminant • Abnormal behavior of small and large ruminant Recording, observation and analysis small and large ruminant behaviour			
	Management of small and large ruminant • Special managements of different species of ruminant	34	34	0
	Manipulation and restraint of small and large ruminant	26	0	26
	Dentition and aging of small and large ruminant	20	0	20
	Practical Management techniques of small and large ruminant	32	0	32
	Small and large ruminant health management	16	0	16
	Administration of medicine	16	0	16
	Total	180	72	108

5-Teaching and learning methods

.1- Lectures
5.2- Active learning
5.3- Self learning by preparing essays and presentations (computer researches and library)
5.4- Practical (farm visits).
5.5.projects.

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.8	b.1 – 2,3,5,6,7,8	c.1,2,3, 6 ,7	d5
Practical Exam	a.3,5,6,8	b.1- b.8	c.1-c.5	d.1,d5
Oral Exam	a.1- a.8	b.1 – 2,3,5,6,7,8	c.1,2,3, 6 ,7	d.1,d.5

Course specification of postgraduate

7.2. Assessment schedules

Method	Week(s)
Writing exam	**36**
Practical exam	**36**
Oral exam	36

7.3. Weight of assessments

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

5-Teaching and learning methods

.1- Lectures
5.2- Active learning
5.3- Self learning by preparing essays and presentations (computer researches and library)
5.4- Practical (farm visits).
5.5.projects.

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.8	b.1 – 2,3,5,6,7,8	c.1,2,3, 6 ,7	d5
Practical Exam	a.3,5,6,8	b.1- b.8	c.1-c.5	d.1,d5
Oral Exam	a.1- a.8	b.1 – 2,3,5,6,7,8	c.1,2,3, 6 ,7	d.1,d.5

7.2. Assessment schedules

Method	Week(s)
Writing exam	**45-48**
Practical exam	**45**
Oral exam	45-48

Course specification of postgraduate

7.3. Weight of assessments

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

7.1. Notes and books

Departmental notes (filing number: 3546/2003) on:
- Textbook of Animal Behaviour and Management (part1)
-Practical Note of Animal & Poultry Behaviour and Management (part1)

7.2. Essential books:

- **Fraser, A.F.(1990):** Farm Animal Behaviour
- **Fraser, A.F. and Broom, D.M.** (1990): Farm Animal Behaviour and Welfare
- **Payne, W.J. (1999):** An Introduction to Animal Husbandry in the Tropics
- **Brown, J.H., Sarah Pilliner and Davies, Z. (**1984 **):** Horse and Stable Management
- **Webster, J (1993):** Understanding dairy cow
- **Katherine A. Houpt** (2018): Domestic Animal Behaviour for Veterinarians and Animal Scientists
- **Phillips, C. (**2002 **):** Cattle Behaviour and Welfare
- **Drickamer, L.C., Vessey, S.H. and Meikle, D. (**2018 **):** Animal Behaviour
- **Sherman, P.W. and Alcock, J. (2005):** Exploring Animal Behaviour
- **Ploger, B.J. and Yasukawa, K. (2002):** Exploring Animal Behaviour in Laboratory and Field

These books are available at the library of faculty of veterinary medicine- Beni Suef

7.3. Journals, Websites ……..etc

Journals:

- Behaviour
- Animal Behaviour
-Applied Animal Behaviour Science
- Journal of Behaviour and Hormones
- Animal Breeding Abstracts
- Journal of Animal Science
- Journal of Dairy Science
- Journal of Dairy Researches

Course specification of postgraduate

- journal of Animal Production
- Canadian Journal of Animal Science
- Animal Reproduction Science

Theriogenology -

- Livestock Production Science

Websites:

- American Association of Dairy Science
-American Association of Animal Science

Course Coordinators **Head of Department**

Course specification of postgraduate

Beni Suef University
Faculty of Veterinary Medicine

Course specification

	Topics	Week	Knowledge and Understanding	Intellectual Skills	Practical and Professional Skills	General & Transferable Skills
1	**Breeds of small and large ruminant.**	**1-3rd**	a.1	b.1	C1	**d.1-d.5**
2	**Description and identification of small and large ruminant** • **Identification of small and large ruminant** • **Writing certificate of small and large ruminant**	**4-9th**	a.2	b.1	C2	**d.1-d.5**
3	**Behavior of small and large ruminant:** • **Normal behavior of** • **Abnormal behavior of small and large ruminant** • **Recording, observation and analysis of small and large ruminant.**	**10-17th**	a.3	b.2,b.3	C3	**d.1-d.5**
4	**Management of small and large ruminant:** • **Special management of different breeds small and large ruminant**	**18-36th**	a.4	b.3,b2	C4	**d.1-d.5**
5	**Manipulation and restraint of animals**	**1-8th**	a.5	b.4	c.5	**d.1-d.5**
6	**Dentition and aging of animals**	**9-15th**	a.6	b.5	C6	**d.1-d.5**

Course specification

7	**- Practical Management techniques**	**16-25th**	a.7	b.6	c.7	**d.1-d.5**
8	**- Animal health management**	**26-29th**	a.8	b.7	c.8	**d.1-d.5**
9	**- Administration of medicine**	**30-36th**	a.8	b.8	c.9	**d.1-d.5**

Beni-Suef University
Faculty of Veterinary Medicine

Course specification of postgraduate

1-Basic information

Course Code:	M-45
Course title :	Behaviour and Management of Equines
Program title:	Master
Contact hours/ week	Lecture: 2 practical : 3 Total: 5
Approval Date	

2-Professional information

Overall aims of course:

This course aims to:

1. Distinguish different breeds of equine.
2. Define the basics and methods of scientific research and the use of its different tools.
1. Application of the analytical method of equine behaviour.
2. Application of specialized practical management techniques in equine farms.
3. Full awareness of most current problems and modern visions in equine farms.

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. list breeds of equine.
a2. Specify characters of equine.
a3. Record special behavior of equine.
a4.Illustrate special managements of equine.
a5.Name the suitable method for equine manipulation and securing.
a.6. Determine age of equine.
a. 7.list special practical managment techniques equine.
a8. Define animal health and methods of drug administration to equine.

b-Intellectual skills

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

b.1- Identify general characters equine.
b.2-Interpret behavioral data of equines.
b.3- Correlate behavioral alterations with managements
b.4-Adopt restraint methods with each animal temperament.
b5. Deal with horse bishopping.
b6. Relate abnormal behavior with mismanagements.
b7. Interpret animal health .

Course specification of postgraduate

b8. Adopt method of drug administration according to health status and age of animal.

C- Professional and practical skills

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

c.1. Advise equine farms with suitable breeds according to aim of breeding
c2. Write identification certificate for equine.
c3. Use behavior as indicator of proper management and housing of equines.
c4. Practice the professional skills of equine management.
c.5. Perform methods for animal approach and handling, securing .
c.6. Interpret and evaluate health status reports of equines.
C.7. Manage equines based according to sex and age.
c.8.Examin animals professionally and evaluate of their health status report
c9. Perform different methods of drug administration.

d- General and transferable skills

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

1- Communicate effectively and utilize the advanced information technology for the improvement of management of equine farms .

2- Utilize the resources to obtain knowledge and information.

3- Work in research group and lead a team work in different veterinary professional and research practice.

4- Manage the scientific seminar, meetings and discussions.

5- Manage the time efficiently.

4-Topics and contents

Course	Topic	No. of hours	Lectures	Practical
(Lec. h./week, Pract h./week)	**- Breeds of equine**	6	6	0
	Description and identification • **Writing certificate**	12	12	0
	Behavior of equines: • **Normal behavior of equines** • **Abnormal behavior of equines** **Recording, observation and analysis of**	16	16	0

Course specification of postgraduate

	equines			
	Management of equines **Management of equines:** • **Special managements of different breeds of equines**	34	34	0
	Manipulation and restraint of animals	26	0	26
	Dentition and aging of animals	20	0	20
	Practical Management techniques	32	0	32
	Animal health management	12	0	12
	Administration of medicine	14	0	14
	Students activities Writing essays and reports.	8	4	4
	Total	180	72	108

5-Teaching and learning methods

5.1- Lectures
5.2- Active learning
5.3- Self learning by preparing essays and presentations (computer researches and library)
5.4- Practical (farm visits).
5.5.projects.

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.8	b.1 – 2,3,5,6,7,8	c.1,2,3, 6 ,7	d5
Practical Exam	a.3,5,6,8	b.1- b.8	c.1-c.5	d.1,d5
Oral Exam	a.1- a.8	b.1 – 2,3,5,6,7,8	c.1,2,3, 6 ,7	d.1,d.5

7.2. Assessment schedules

Method	**Week(s)**
Writing exam	**36**

Course specification of postgraduate

Practical exam	**36**
Oral exam	36

7.3. Weight of assessments

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

8- List of references

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

7.2. Essential books:

- **Fraser, A.F.(1990):** Farm Animal Behaviour
- **Fraser, A.F. and Broom, D.M.** (1990): Farm Animal Behaviour and Welfare
- **Payne, W.J. (1999):** An Introduction to Animal Husbandry in the Tropics
- **Brown, J.H., Sarah Pilliner and Davies, Z. (**1984 **):** Horse and Stable Management
- **Webster, J (1993):** Understanding dairy cow
- **Katherine A. Houpt** (2018): Domestic Animal Behaviour for Veterinarians and Animal Scientists
- **Phillips, C. (**2002 **):** Cattle Behaviour and Welfare
- **Drickamer, L.C., Vessey, S.H. and Meikle, D. (**2018 **):** Animal Behaviour
- **Sherman, P.W. and Alcock, J. (2005):** Exploring Animal Behaviour
- **Ploger, B.J. and Yasukawa, K. (2002):** Exploring Animal Behaviour in Laboratory and Field

These books are available at the library of faculty of veterinary medicine- Beni Suef

7.3. Journals, Websites ……..etc

Journals:

- Behaviour
- Animal Behaviour
-Applied Animal Behaviour Science
- Journal of Behaviour and Hormones
- Animal Breeding Abstracts
- Journal of Animal Science
- Canadian Journal of Animal Science
- Animal Reproduction Science

Websites:

-American Association of Animal Science

Beni-Suef University
Faculty of Veterinary Medicine

Course specification of postgraduate

Course Coordinators **Head of Department**

	Topics	Week	Knowledge and Understanding	Intellectual Skills	P Pro
1	**Breeds of equines.**	**1-3rd**	a.1	b.1	C1
2	**Description and identification** • **Writing certificate**	**4-9th**	a.2	b.1	C2
3	**Behavior of equines:** • **Normal behavior of equines** • **Abnormal behavior of equines** • **Recording, observation and analysis of equines.**	**10-17th**	a.3	b.2,b.3	C3
4	**Management of equines:** • **Special management of different breeds of equines**	**18-36th**	a.4	b.3,b2	C4
5	**Manipulation and restraint of animals**	**1-8th**	a.5	b.4	c.5
6	**Dentition and aging of animals**	**9-15th**	a.6	b.5	C6
7	**- Practical Management techniques**	**16-25th**	a.7	b.6	c.7
8	**- Animal health management**	**26-29th**	a.8	b.7	c.8
9	**- Administration of medicine**	**30-36th**	a.8	b.8	c.9

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Beni-Suef University
Faculty of Veterinary Medicine

Course specification of postgraduate

1-Basic information

Course Code:	M-46
Course title :	Behaviour & Management of Pet animals
Program title:	Master
Contact hours/ week	Lecture: 1 practical : 2 Total: 3
Approval Date	

2-Professional information Overall aims of course:

This course aims to:

- Distinguish different breeds of pet animals .
- Properly understanding the basics and methods of scientific research and the use of its different tools.
- Application of the analytical method of pet animals behaviour.
- Application of specialized practical management techniques in pet animals.
- Full awareness of most current problems and modern visions in pet animals management.

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. list breeds of pet animals.
a2. Specify characters of each pet animals breeds.
a3. Record special behavior of pet animals.
a4.Illustrate special managements of pet animals
a5.Name the suitable method for pet animals manipulation and securing.
a.6. Determine age of pet animals.
a. 7.list special practical managment techniques of pet animals.
a8. Define animal health and methods of drug administration to pet animals.

b-Intellectual skills

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

b.1- Identify characters of each pet animals breed.
b.2-Interpret behavioral data of pet animals.
b.3- Correlate behavioral alterations with managements
b.4-Adopt restraint methods with each animal temperament.
b5. Decide culling of pet animals based on their age.
b6. Relate abnormal behavior with mismanagements of pet animals.
b7. Interpret pet animals health .

Course specification of postgraduate

b8. Adopt method of drug administration according to health status and age of ruminant.

C- Professional and practical skills

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

c.1. Advise pet animals owners with best breeds of pet animals.
c2. Write identi cation certi cate for di erent breeds of pet animals.
c3. Use behaviour as indicator of proper management and housing of pet animals.
c4. Practice the professional skills of pet animals management.
c.5. Perform methods for animal approach and handling, securing of pet animals.
c.6. Interpret and evaluate health status reports of pet animals.
C.7. Manage pet animals based on sex and age.
c.8.Examin animals professionally and evaluate their health status report.
c9. Perform different methods of drug administration to pet animals.

d- General and transferable skills

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

1- Communicate effectively and utilize the advanced information technology for the improvement of management of pet animals.

2- Utilize the resources to obtain knowledge and information.

3- Work in research group and lead a team work in different veterinary professional and research practice.

4- Manage the scientific seminar, meetings and discussions.

5- Manage the time efficiently.

4-Topics and contents

Course	Topic	No. of hours	Lectures	Practical
(Lec. h./week, Pract h./week)	• **Breeds of pet animals**	16	16	0
	Description and identification • **Writing certificate**	16	16	0
	Behavior of pet animals: • **Normal behavior of pet animals Abnormal behavior of pet** • **Recording, observation and analysis of pet animals**	16	16	0

Course specification of postgraduate

	• **Management of pet animals** • **Special managements of different species of pet animals**	24	24	0
	• **Manipulation and restraint of pet animals**	6	0	6
	• **Dentition and aging of pet animals**	10	0	10
	• **Practical Management techniques of pet animals**	2	0	2
	• **Pet animals health management**	2	0	2
	• **Administration of medicine**	16	0	16
	Total	108	72	36

5-Teaching and learning methods

.1- Lectures
5.2- Active learning
5.3- Self learning by preparing essays and presentations (computer researches and library)
5.4- Practical (farm visits).
5.5.projects.

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.8	b.1 – 2,3,5,6,7,8	c.1,2,3, 6 ,7	d5
Practical Exam	a.3,5,6,8	b.1- b.8	c.1-c.5	d.1,d5
Oral Exam	a.1- a.8	b.1 – 2,3,5,6,7,8	c.1,2,3, 6 ,7	d.1,d.5

7.2. Assessment schedules

Method	**Week(s)**
Writing exam	**36**
Practical exam	**36**

Course specification of postgraduate

Oral exam	36

7.3. Weight of assessments

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

8- List of references

8.1. Notes and books

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

2. Essential books:

- **Drickamer, L.C., Vessey, S.H. and Meikle, D. (**2018 **):** Animal Behaviour
- **Sherman, P.W. and Alcock, J. (2005):** Exploring Animal Behaviour
- **Ploger, B.J. and Yasukawa, K. (2002):** Exploring Animal Behaviour in Laboratory and Field
- **Katherine A. Houpt** (2018): Domestic Animal Behaviour for Veterinarians and Animal Scientists

Gould J. (1978): All about dog breeding for quality and soundness.

Pinney,C,C.(1995):The Illustrate Veterinary Guide for Dogs,Cats,Birds,and Exotic pets. TAB Books.Division of McGraw-Hill.Inc.

- 8.3. Recommended texts

- - D.Mellor,P.Thomber,D.Bayvel&S.Kahn. (2008) Scientific assesment and management of animal pain. vol.10.
- Chadwick Tillberg Michael Breed Sarah Hinners(2007) Field and laboratory exercise in animal behavior
- **Journals:**
- Behaviour
- Animal Behaviour
-Applied Animal Behaviour Science
- Journal of Behaviour and Hormones
- Animal Breeding Abstracts

Course specification of postgraduate

- Journal of Animal Science
- Canadian Journal of Animal Science
- **e-books**
- -Handbook of applied dog behavior and training
- http://catal0g.info/downloads/handbook-of-applied-dog-behavior-and-training.pdf

- -Canine and feline behavior for veterinary technicians and nurses PDF, ePub eBook

- http://booksreadingathome.com/downloads/canine-and-feline-behavior-for-veterinary-technicians-and-nurses.pdf
-

Websites:

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

Course Coordinators **Head of Department**

Beni Suef University
Faculty of Veterinary Medicine

Course specification

	Topics	Week	Knowledge and Understanding	Intellectual Skills	Practical and Professional Skills	General & Transferable Skills
1	**Breeds of pet animals**	**1-3rd**	a.1	b.1	C1	**d.1-d.5**
2	• **Description and identification of pet animals** • **Identification of of pet animals**	**4-9th**	a.2	b.1	C2	**d.1-d.5**
3	**Behavior of of pet animals :** • **Normal behavior of of pet animals** • **Abnormal behavior of pet animals Recording, observation and analysis of of pet animals**	**10-17th**	a.3	b.2,b.3	C3	**d.1-d.5**
4	• **Management of of pet animals** **Special management of different of pet animals**	**18-36th**	a.4	b.3,b2	C4	**d.1-d.5**
5	**Manipulation and restraint of of pet animals**	**1-8th**	a.5	b.4	c.5	**d.1-d.5**
6	**Dentition and aging of pet animals**	**9-15th**	a.6	b.5	C6	**d.1-d.5**
7	**- Practical Management techniques of of pet animals**	**16-25th**	a.7	b.6	c.7	**d.1-d.5**
8	**- Animal health management**	**26-29th**	a.8	b.7	c.8	**d.1-d.5**

Course specification

9	**- Administration of medicine**	**30-36th**	a.8	b.8	c.9	**d.1-d.5**

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1-Basic information

Course Code:	M-47
Course title :	Behaviour and Management of Laboratory animals
Program title:	Master
Contact hours/ week	Lecture: 1 practical : 2 Total: 3
Approval Date	

2-Professional information

Overall aims of course:

This course aims to:

- Distinguish different breeds of laboratory animals .
- Properly understanding the basics and methods of scientific research and the use of its different tools.
- Application of the analytical method of laboratory animals behaviour.
- Application of specialized practical management techniques in laboratory animals houses.
- Full awareness of most current problems and modern visions in laboratory animals houses.

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. list species of laboratory animals.
a2. Specify characters of each laboratory animals species.
a3. Record special behavior of laboratory animals.
a4.Illustrate special managements of laboratory animals.

a5.Name the suitable method for laboratory animals handling and restraint.
a.6. Determine sex of laboratory animals.
a. 7.list breeding systems of laboratory animals.
a8. Recognize animal health and methods of drug administration to laboratory animals.

b-Intellectual skills

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

b.1- Identify characters of each laboratory animal species.
b.2-Interpret behavioral data of laboratory animals.
b.3- Correlate behavioral alterations with management of laboratory animals.
b.4-Adopt restraint methods with each laboratory animals species.
b5. Decide start of laboratory animals breeding based on species, sex, weight and age.
b6. Relate abnormal behavior with management and breeding of laboratory animals.
b7. Interpret laboratory animals health .
b8. Adopt method of drug administration according to health status, weight and sex of laboratory animals.

C- Professional and practical skills

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

c.1. Advise laboratory animals houses managers and researchers with suitable species according to aim of breeding and research.
c2. Practice marking of laboratory animals.
c3. Use behaviour as indicator of proper management and housing of laboratory animals.
c4. Practice the professional skills of laboratory animals management.
c.5. Perform methods for animal handling and restraint of laboratory animals.
c.6. Interpret and evaluate health status reports of laboratory animals.
C.7. Manage laboratory animals based on sex and age.
c.8.Examin animals professionally and evaluate their health status report.
c9. Perform different methods of drug administration to laboratory animals.

d- General and transferable skills

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

1- Communicate effectively and utilize the advanced information technology for the improvement of management of laboratory animals houses .

2- Utilize the resources to obtain knowledge and information.

3- Work in research group and lead a team work in different veterinary professional and research practice.

4- Manage the scientific seminar, meetings and discussions.

5- Manage the time efficiently.

Beni Suef University
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4-Topics and contents

Course	Topic	No. of hours	Lectures	Practical
(Lec. h./week, Pract h./week)	Species of laboratory animals	16	16	0
	laboratory animals	16	16	0
	Behavior of laboratory animals: • Normal behavior of laboratory animals Abnormal behavior laboratory animals Recording, observation and analysis of laboratory animals	16	16	0
	• Management of laboratory animals Special managements of different species of laboratory animals	24	24	0
	Handling and restraint of laboratory animals	6	0	6
	Sexing of laboratory animals	10	0	10
	Breeding systems of laboratory animals	2	0	2
	laboratory animals health management	2	0	2
	Administration of medicine	16	0	16
	Total	108	72	36

5-Teaching and learning methods

.1- Lectures
5.2- Active learning
5.3- Self learning by preparing essays and presentations (computer researches and library)
5.4- Practical (farm visits).
5.5.projects.

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.8	b.1 – 2,3,5,6,7,8	c.1,2,3, 6 ,7	d5
Practical Exam	a.3,5,6,8	b.1- b.8	c.1-c.5	d.1,d5
Oral Exam	a.1- a.8	b.1 – 2,3,5,6,7,8	c.1,2,3, 6 ,7	d.1,d.5

7.2. Assessment schedules

Method	Week(s)
Writing exam	**36**
Practical exam	**36**

Oral exam	36

7.3. Weight of assessments

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

8- 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:

Sherman, P.W. and Alcock, J. (2005): Exploring Animal Behaviour

- **Ploger, B.J. and Yasukawa, K. (2002):** Exploring Animal Behaviour in Laboratory and Field

8.3. Recommended textbooks:

The 1996 guide for the care and use of laboratory animals

http://ilarjournal.oxfordjournals.org/content/38/1/41.short

Guide for the care and use of laboratory animals

https://books.google.com.eg/books?hl=ar&lr=&id=NzcrAAAAYAAJ&oi=fnd&pg=PA1&dq=laboratory+animals+journal&ots=69JHEwNPdJ&sig=mgcTV3NT9O9wOljttpIsZRwOZpw&redir_esc=y#v=onepage&q=laboratory%20animals%20journal&f=false

Handbook of laboratory animal management and welfare

https://books.google.com.eg/books?hl=ar&lr=&id=xVqjrZ7yQ2cC&oi=fnd&pg=PR7&dq=laboratory+animals+management++journal&ots=1hrYzaRm5L&sig=lmgXRbDp0Y4NwKE1f_UW-

2bme90&redir_esc=y#v=onepage&q=laboratory%20animals%20management%20%20journal&f=false

- Hand book of laboratory animal scince,volume 1,3rd edition:essential principles and practices
  Jann Hau and Steven Schapiro.
- Animal intelligence from individual to social cognition. Zhanna Reznikova
- Scienti c assesment and management of animal pain,technical series vol.10,2008.
  D.Mellor,P.Thomber,D.Bayvel&S.Kahn.
- Vibrational communication in animals. Peggy S.M. Hill.
- Field and laboratory exercise in animal behaviour. Chadwick Tillberg.
- Observing animal behaviour. Marian Stamp Dawkins.

8.4. Journals, Websites ……..etc

Laboratory Animals
lan.sagepub.com/

Laboratory Animal Journals and Newsletters
*dels.nas.edu/global/ilar/Links-**Journals***

Related Journals | Animal Welfare Information Center
*https://awic.nal.usda.gov/research-**animals**/related-**journals***

Course Coordinators **Head of Department**

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	Topics	Wk	Knowledge and Understanding	Intellectual Skills	Practical and Professional Skills	General & Transferable Skills
1	**Species of laboratory animals**	**1-3rd**	a.1	b.1	C1	**d.1-d.7**
2	**Identification and marking of laboratory animals**	**4-9th**	a.2	b.1	C2,10	**d.1-d.7**
3	**Behavior of laboratory animals :** **Normal behavior of laboratory animals** **Abnormal behavior of laboratory animals** • **Recording, observation and analysis of laboratory animals**	**10-20th**	a.3,a9	b.2,b.3	C3,10	**d.1-d.7**
4	**Management of laboratory animals:** • **Special management of different breeds of laboratory animals**	**20 -36th**	a.4,a.10	b.3,b2,b9.b10	C4 ,c11	**d.1-d.7**
5	**Handling and restraint of laboratory animals**	**1-8th**	a.5	b.4	c.5	**d.1-d.7**
6	**Sexing of laboratory animals**	**9-15th**	a.6	b.5	C6	**d.1-d.7**
7	**Breeding systems of laboratory animals**	**16-25th**	a.7	b.6	c.7	**d.1-d.7**
8	**Animal health management**	**26-29th**	a.8	b.7	c.8	**d.1-d.7**
9	**Administration of medicine**	**30-36th**	a.8	b.8	c.9	**d.1-d.7**

Beni Suef University
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Faculty of Veterinary Medicine

1-Basic information

Course Code:	M-48
Course title :	Behaviour and Management of Poultry and Rabbits
Program title:	Master
Contact hours/ week	Lecture: 1 practical : 2 Total: 3
Approval Date	

2-Professional information

Overall aims of course:

This course aims to:

- Distinguish different breeds of poultry and rabbits.
- Properly understanding the basics and methods of scientific research and the use of its different tools.
- Application of the analytical method of poultry and rabbits behaviour.
- Application of specialized practical management techniques in poultry and rabbits houses.
- Full awareness of most current problems and modern visions in poultry and rabbits houses.

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. list breeds of poultry and rabbits.
a2. Describe environmental conditions enhance hatchability.
a3. Record special behavior of poultry and rabbits.
a4.Illustrate special managements of poultry and rabbits.

a5.Name the suitable method for poultry and rabbits handling and restraint.
a.6. Determine egg quality.
a. 7.list rearing systems of poultry and rabbits.
a8. Define health and methods of drug administration to poultry and rabbits.

b-Intellectual skills

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

b.1- Identify characters of each poultry and rabbits breeds.
b.2-Interpret behavioral data of poultry and rabbits.
b.3- Correlate behavioral alterations with managements
b.4-Adopt restraint methods with each poultry and rabbits species.
b5. Decide culling of eggs that may decrease hatchability percentage.
b6. Relate abnormal behavior with mismanagements of poultry and rabbits.
b7. Interpret poultry and rabbits health .
b8. Adopt method of drug administration according to health status of poultry and rabbits.

C- Professional and practical skills

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

c.1. Advise poultry and rabbits farms with suitable breeds according to aim of production.
c2. Manage hatcheries.
c3. Use behaviour as indicator of proper management and housing of poultry and rabbits.
c4. Practice the professional skills of poultry and rabbits management.
c.5. Perform methods of handling and restraint of poultry and rabbits.
c.6. Interpret and evaluate health status reports of poultry and rabbits.
C.7. Manage layers to get best egg quality.
c.8.Examin poultry and rabbits professionally and evaluate their health status report.
c9. Perform different methods of drug administration to poultry and rabbits.

d- General and transferable skills

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

1- Communicate effectively and utilize the advanced information technology for the improvement of management of poultry and rabbits farms .

2- Utilize the resources to obtain knowledge and information.

3- Work in research group and lead a team work in different veterinary professional and research practice.

4- Manage the scientific seminar, meetings and discussions.

5- Manage the time efficiently.

4-Topics and contents

Beni Suef University
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Course	Topic	No. of hours	Lectures	Practical
(Lec. h./week, Pract h./week)	- Breeds of poultry and rabbits	16	16	0
	Hatcheries	16	16	0
	Behavior poultry and rabbits: • Normal behavior of poultry and rabbits • Abnormal behavior of poultry and rabbits • Recording, observation and analysis poultry and rabbits	16	16	0
	Management of poultry and rabbits • Special managements of different of poultry and rabbits	24	24	0
	Manipulation and restraint poultry and rabbits	6	0	6
	- Egg quality testing	10	0	10
	Practical Management techniques of Poultry and rabbits	2	0	2
	Poultry and rabbits health	2	0	2

	management			
	Administration of medicine	16	0	16
	Total	108	72	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 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**
Written Exam	a.1- a.8	b.1 – 2,3,5,6,7,8	c.1,2,3, 6 ,7	d5
Practical Exam	a.3,5,6,8	b.1- b.8	c.1-c.5	d.1,d5
Oral Exam	a.1- a.8	b.1 – 2,3,5,6,7,8	c.1,2,3, 6 ,7	d.1,d.5

7.2. Assessment schedules

Method	**Week(s)**
Writing exam	**36**
Practical exam	**36**
Oral exam	36

7.3. Weight of assessments

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

8- 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:

Appleby,M.C.;Huges,B.O. and Elson,H.A.(1992): Poultry production systems,Behaviour,Management and Welfare. C.A.B.International,UK.British Library.

Banerjee,G.C. (1980): Textbook of Animal Husbandry.Oxford and IBM publishing Co.

Boden,E. (1990): Small animal practice.Bailliere Tindal, Lonodon.

Emeash,H.H. and Attia,M.Z. (1998): Performance and behavioural characters of layers as influenced by forced moult.Proc.5th Sci.Conf.EgyptianVet.Poultry Association,1998: 216-233.

Leonard, M.L.;Horn,A.G.andFairfull,R.W. (1995): Correlates and consequences of allopecking in White Leghorn chickens. Applied Animal Behaviour Science,43; 17-26.

8.3. Recommended textbooks:

Leonard S. M. (1983): Raising poultry the modern way

Mauldin,J.M.(1992): Application of behaviour to poultry management. Poultry Science,71: 634-642.

Pattison,M.(1993): The Health of Poultry. Longman Scientific &Technical Publishers,Lonodon.

Sand Ford, J.C. (1996): The domestic rabbit. Blackwell science.

Vestergaard, K.S.(1994): Dust bathing and its relation to feather pecking in the fowl: Motivational and developmental aspects. Dissertation, The Royal Veterinary and Agricultural University, Dept. of Animal Science and Animal Health(Copenhagen, Denmark).

e- Book.

8.4. Journals, **Websites** ……..etc

Related Journals | Animal Welfare Information Center
https://awic.nal.usda.gov/research-animals/related-journals

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

Course Coordinators **Head of Department**

Beni Suef University
Faculty of Veterinary Medicine

	Topics	Week	Knowledge and Understanding	Intellectual Skills	Practical and Professional Skills	General & Transferable Skills
1	**Breeds of poultry and rabbits.**	**1-3rd**	a.1	b.1	C1	**d.1-d.5**
2	• **Hatcheries**	**4-9th**	a.2	b.1	C2	**d.1-d.5**
3	**Behavior of poultry and rabbits :** • **Normal behavior of poultry and rabbits** • **Abnormal behavior poultry and rabbits** • **Recording, observation and analysis of poultry and rabbits**	**10-17th**	a.3	b.2,b.3	C3	**d.1-d.5**
4	**Management poultry and rabbits :** **Special management of different poultry and**	**18-36th**	a.4	b.3,b2	C4	**d.1-d.5**

	rabbits					
5	**-Manipulation and restraint of animals**	**1-8th**	a.5	b.4	c.5	**d.1-d.5**
6	**-Egg quality test**	**9-15th**	a.6	b.5	C6	**d.1-d.5**
7	**-Practical Management techniques of Poultry and rabbits**	**16-25th**	a.7	b.6	c.7	**d.1-d.5**
8	**- Health management of poultry and rabbits**	**26-29th**	a.8	b.7	c.8	**d.1-d.5**
9	**- Administration of medicine**	**30-36th**	a.8	b.8	c.9	**d.1-d.5**