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

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Program Specification for Ph Degree
2017-2018

A-Basic information:

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

B-Professional information:

1- Overall aims of the program:

1-Sumaarize all theories, principles and basics of animal and poultry behavior and management

2- Integrate the specialized and related knowledge to understand the underlying mechanisms of behavioral changes.

3- Master the identification of abnormal behaviours and finding solutions based on sound scientific research concepts.

4-Develop the advanced managerial systems that provide animal welfare.

5- Utilize efficiently the available resources and improving as well as offering new resources.

6- skillful in planning and writing of scientific papers and research projects.

7- skillful in communication and working in group.

2- Intended learning outcomes of course (ILOs):

a- Knowledge and understanding:

By the end of this PhD program the graduate should be able to:

al- Describe advanced techniques used in the field of animal and poultry behavior and management and their relation to public health.

a2-Percieve advanced scientific research principles in ethics of animal care and use in researches.

a3- Define behavioral alteration in relation to nervous disorders and physiological changes .

a4- Sustain quality control in managing animal during stressful condition.

a5-list complications of advanced managerial methods and welfare problems in farm animals and poultry.

b- Intellectual capacity:

By the end of this PhD program the graduate should be able to:

b1- Analyze and evaluate behavioral alteration of farm animals and poultry .
b2- Solve specialized managerial problems.
b3- Utilize behavioural indicators to improve animal and poultry management and wealth.
b4- Edit scientific papers with high impact factor (reputable journals).
b5- Assess the risk of practical management techniques applied in animal and poultry farm.
b6- Compare different managerial methods and select that improve animal and poultry performance.
b7- Make a decision in variable practical management techniques and animal restraint in addition to create techniques that minimize stress .

c- Professional and practical skills:

By the end of this PhD program the graduate should be able to:

c1- Apply the principles of good experimental design and analysis to their own research project .

c2- Select and perform relevant statistical analysis on data obtained for their own research .
c3- Plan a research project in the field of animal and poultry behavior and management with a consideration to technical , ethical and safety issues and associated costs.
c4- Master the up to date recent professional skills in behavior recording and analysis.
c5- Write and assess the behavioural and clinical examination reports.
c6- Manage the research projects.
c7- practice the to date technology in the field of animal and poultry management and behaviour.
c8-Use behavioral and physiological indicators for performance evaluation.

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

dl- communicate effectively, work actively in a research group and can lead team work.
d2-. Demonstrate self -earning independently and continuously
d3- Educate others .
d4- Manage time successfully in the work , scientific meetings and discussions.

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 , ARS (National Academic Reference Standards) prepared by NAQAAE.

4- Curriculum Structure and Contents

a-Program duration: 48 weeks.

b-Program structure: 3-5 preliminary courses

☒ **Hours/ week:**

Theoretical 5-8 Practical 6-8 Total 11-16

Preliminary courses

Code	Course title	Hours /week		Academic year	Teaching duration
		theoritical	practical		
According to selected courses	Selected (3-5) PhDcourses from the various Faculty Departments programs depending on the thesis title.	5-8	6-8	Preliminary year	36 weeks

D- Courses contents
See courses specification

5- Program Admission Requirements

* According to the Faculty of Veterinary Medicine, Beni-Suef University Bylaws for Post Graduate Programs, applicants should have a master degree in the specialization subject he will register in one of the Egyptian Universities or an equivalent degree from any approved university or another recognized scientific institute.
* According to Beni-Suef University requirements, all applicants for postgraduate studies should fulfill preliminary courses on the following subjects:
1-English language (Toefl or equivalent degree)

* Admission to the program is open during March and September annually.

*The faculty council has the right to suspend the student enrolment for a certain period if he has acceptable excuse preventing him from continuing his study or research.

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 written examined time	Degree	
		Theoretical	Practical and oral exam
≥ 3 hours	3 hours	50	50
≤ 3 hours	2 hours	25	25

-The faculty council has the right to deprive the applicant from entering the exams if his attendance courses is less than 75% .
-Failure or depriving from entering one or more course did not requires reexamination of successful passed courses.
-The applicant should submit a seminar within 2years after registration about his research and specialization subject filed that accepted by a committee of professors and assistant professors(3 in number).
-the applicant should submit the thesis that accepted by the judging committee in an open discussion and the following polices should be met:

-pass all preliminary curriculums successfully.
-acceptance of the seminar presented by the applicant.

-The applicant should publish at least two scientific papers from the thesis in local or international journals

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 Ph.D. 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.

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 after at least three years from registration date according to University regulations.

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

Ph.D. Thesis:

The Ph.D. students should prepare a thesis in animal and poultry behavior and management . The department and the ethical committees must approve the protocol of the research. The thesis includes a review part with a practical part. The thesis is supervised by two 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.

B- Matrix alignment of the measured ILOs

8- Evaluation of Program Intended Learning Outcomes

Evaluator	Tool	Sample
1. Post graduate Students	Questionnaire at the end of the program	All the PG students

Assessments methods	Matrix alignment of the measured ILOs			
	K&U (a)	I.S (b)	P&P. S (c)	G&T. S (d)
Written exam	1-5	1,2,3,6,7	5,8	4
Practical exam	1	1,2,3,5,6,7	1,2,3,5,6,7,8	4
Oral exam	1-5	2,3,4,5,6.7	8	1
Assessment and evaluation form	2	4	1	1,2,3

4. External Evaluators	Review program and courses Attending the final exam	Once before implementation annual report
5. College Quality Assurance committee	Annual program reviewer	

PhD Program Specification Matrix (Program ILOS with Academic standers ARS)

Academic standers / Program ILOs		Knowledge and understanding					Intellectual skills									Professional and practical skills					General and transferable skills						
		a1	a2	**a3**	**a4**	**a5**	**b1**	**b2**	**b3**	**b4**	**b 5**	**b 6**	**b 7**	**b 8**	**b9**	**c1**	**c2**	**c3**	**c 4**	**c5**	**d 1**	**d 2**	**d 3**	**d 4**	**d 5**	**b 6**	**b7**
Knowledge and understanding	a1	×																									
	a2	×	×																								
	a3			×																							
	a4				×																						
	a5					×																					
Intellectual skills	b1						×																				
	b2							×																			
	b3								×						×												
	b4									×																	
	b5										×	×															
	b6											×															
	b7											×	×	×													
Professional and practical skills	c1															×											
	c2																×			×							
	c3																	×									
	c4																		×								
General and	**d1**																				×	×			×		

transferable skills	**d2**																					×		×			
	d3																						×				
	d4																									×	×

Master Program Specification Matrix (Program Courses with ILOS)

Program ILOs		courses
Knowledge and understanding	a1	44,45,46,47,48
	a2	44,45,46,47,48
	a3	29,73,75
	a4	44,45,46,47,48
	a5	44,45,46,47,48,193
Intellectual skills	b1	44,45,46,47,48
	b2	44,45,46,47,48
	b3	

		44,45,46,47,48+Thesis
	b4	44,45,46,47,48+Thesis
	b5	44,45,46,47,48
	b6	44,45,46,47,48
	b7	44,45,46,47,48
Professional and practical skills	c1	44,45,46,47,48 +Thesis
	c2	225
	c3	44,45,46,47,48+Thesis
	c4	44,45,46,47,48
	C5	44,45,46,47,48,130
	C6	44,45,46,47,48+Thesis`
	C7	44,45,46,47,48
	C8	44,45,46,47,48,29
General and transferable skills	**d1**	44,45,46,47,48 +research methods and Thesis
	d2	44,45,46,47,48

		+ research methods and Thesis
	d3	M44,45,46,47,48 + research methods and Thesis
	d4	M44,45,46,47,48 +research method and Thesis

ILOS	Aims of master program						
	-Sumaarize all theories, principles and basics of animal and poultry behavior and management	**Integrate the specialized and related knowledge to understand the underlying mechanisms of behavioral changes.**	**Master the identification of abnormal behaviours and finding solutions based on sound scientific research concepts**	**Develop the advanced managerial systems that provide animal welfare.**	**Utilize efficiently the available resources and improving as well as offering new resources**	**Skillful in planning and writing of scientific papers and research projects**	**Skillful in communication and working in group.**
a1							
a2				*			
a3		*	*				
a4					*		
a5	*			*			
b.1-	*						
b.2					*		

b.3-			*		*		
b4-				*		*	
b5-							
b6							
b7				*			
c1						*	
c2						*	
c3						*	
c4					*		
C5						*	
C6						*	
C7						*	
C8			*	*			
d1							*
d2						*	*
d3					*		*
d4						*	*

Course coordinator **Head of the Department**

Beni Suef University
Faculty of Veterinary Medicine

Course specification

1-Basic information

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

2-Professional information

Overall aims of course:

This course aims to:

1. Deep awareness with the basics of scientific research and advanced methodologies.
2. Adding to the ongoing work in the pet animals farms.
3. Application of advanced analytical methods pet animals behaviours and related areas.
4. Solve all problems of current and modern management in the pet animals farms.
5. Identification of housing problems and finding innovative solutions to them.
6. Mastering a wide range of professional skills in pet animals practical management techniques .
7. Follow the trends toward the development of new method and tools used for management of pet animals .
8. Achieve welfare in pet animals .

3- Intended learning outcomes of course (ILOs)

a- Knowledge and understanding:

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

a.1. list breeds of different pet animals species.

Course specification

a2. Specify characters of each pet animals .
a3. Record special normal and abnormal of pet animals and remedy of bad vices.
a4.Illustrate special managements that providing welfare pet animals.
a5.Name the suitable method for pet animals securing.
a.6.Determine age of different pet animals species.
a. 7.list special practical managment techniques pet animals .
a8. Define animal health and methods of drug administration to pet animals .
a.9 Mach advanced method of behaviour analysis with the selected behavioural patterns of pet animals .

b-Intellectual skills

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

b.1- Identify characters and health signs of each breed of pet animals .
b.2-Interpret behavioral data of pet animals including normal and abnormal behaviours.
b.3- Correlate behavioural alterations with pet animals management and welfare.
b.4-Adopt restraint methods with each animal species, production and temperament.
b5. Decide culling of animals from production basedon abnormal behavior and reproduction.
b6. Relate abnormal behavior with mismanagements and welfare problems of pet animals .
b7. Interpret pet animals health, behavuour and reproduction .
b8. Adopt advanced methods of drug administration according to health status and age of animal.
b9. Utilize behavior to professionally manage pet animals farms.
b.10-plan to improve production providing welfare in pet animals .

C- Professional and practical skills

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

c.1. Advise owners with suitable methods of pet animal breeding or different breeds.
c2. Write identi cation and health certificates for pet animals .
c3. Use behaviour as indicator to welfare of pet animals.

Course specification

c4. Practice the professional skills of pet animals management reproduction.

c.5. Perform advanced methods for animal approach and handling, securing .

c.6. Interpret and evaluate health status and reproductivity reports of pet animals .

c.7. Manage pet animals according to sex and age to provide welfare.

c.8.Examin pet animals professionally using advanced methods and evaluate of their health status report.

c9. Perform advanced techniques of drug administration to pet animals .

c.10.Use advanced methods and technology for analysis of behavior, management and identification of pet animals.

c.11.Write-a report about animal welfare .

c.12. Perform research studies which add to the recent knowledge in equine management and behavior.

c.13.Formulate scientific papers.

c14.Employ all behavioral and managerial information to

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

Course specification

(Lec. h./week, Pract h./week)	**Course description** **- Breeds of pet animals**	16	16	0
	Description and identification of pet animals Writing certificate • **Electronic Identification**	16	16	0
	Behaviour of pet animals **Behavior of pet animals :** • **Normal behavior of pet animals** • **Abnormal behavior of pet animals** • **Remedy of abnormal behaviors** • **Recording, observation and** • **Analysis of pet animals** • **Using advanced method of behavior analysis**	16	16	0
	Management of pet animals • **Special management of different breeds of pet animals** • **Professional management of pet animals** • **Improve pet animals production** • **pet animals welfare**	24	24	0
	Manipulation and restraint of animals	6	0	6
	Dentition and aging of animals	10	0	10

Course specification

	Practical Management techniques	2	0	2
	Animal health management	2	0	2
	Administration of medicine	16	0	16
	Total	108	72	36

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.9	b.1 – 2,3,5,6,7,8	c.1,2,3, 6 ,7,10	d5
Practical Exam	a.3,5,6,8,9	b.1- b.10	c.1- c.5,10,11	d.1
Oral Exam	a.1- a.8	b.1 – 2,3,5,6,7,8	c.1,2,3, 6 ,7	d.5

7.2. Assessment schedules

Course specification

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

8.2. 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

Course specification

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
- 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

Beni Suef University
Faculty of Veterinary Medicine

Course specification

WWW.Scholar google.com
WWW.welly interscience

Course Coordinators **Head of Department**

	Topics	Wk	Knowledge and Understanding	Intellectual Skills	Practical and Professional Skills	General & Transferable Skills
1	**Breeds of animals pet animals**	**1-3rd**	a.1	b.1	C1	**d.1-d.7**
2	• **Description and identification pet animals** • **Writing certificate** • **Electronic Identification**	**4-9th**	a.2	b.1	C2,10	**d.1-d.7**
3	**Behavior of pet animals :** • **Normal behavior of pet animals** • **Abnormal behavior of pet animals** • **Remedy of abnormal behaviors** • **Recording, observation and analysis pet animals using advanced method of behavior**	**10-20th**	a.3,a9	b.2,b.3	C3,10	**d.1-d.7**

Course specification

	analysis					
4	**Management of equines:** • **Special management of different breeds pet animals** • **Professional management of pet animals** • **Improve pet animals production** • **pet animals welfare**	**20 -36^{h}**	a.4,a.10	b.3,b2,b9.b10	C4 ,c11	**d.1-d.7**
5	**Manipulation and restraint of animals**	**1-8th**	a.5	b.4	c.5	**d.1-d.7**
6	**Dentition and aging of animals**	**9-15th**	a.6	b.5	C6	**d.1-d.7**
7	**- Practical Management techniques**	**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
Faculty of Veterinary Medicine

1-Basic information

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

2-Professional information

Overall aims of course:

This course aims to:

1. Deep awareness with the basics of scientific research and advanced methodologies.
2. Adding to the ongoing work in the laboratory animals farms.
3. Application of advanced analytical methods laboratory animals behaviours .
4. Solve all problems of current and modern management in the laboratory animals farms.
5. Identification of housing problems and finding innovative solutions to them.
6. Mastering a wide range of professional skills in laboratory animals practical management techniques .
7. Follow the trends toward the development of new method and tools used for management of laboratory animals.
8. Achieve welfare in laboratory animals 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 laboratory animals species used for experimental study and as pet animals.
a2. Specify characters and uses of each laboratory animals species.
a3. Record all normal and abnormal of laboratory animals with remedy of bad vices.
a4.Illustrate special managements that providing welfare of laboratory animals
a5.Name the advanced techniques and methods for laboratory animals handling and restraint and euthanasia according to Canadian ethical guidelines of laboratory animals..
a.6.Determin sex and puberty of different laboratory animals species at early age.
a. 7.list behavioral tests applied on laboratory in scientific research.
a8. Recognize advanced methods of animal examination and drug administration to laboratory animals.
a.9 Mach advanced method of behaviour analysis with the selected behavioural patterns of laboratory animals.

b-Intellectual skills

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

b.1- Identify characters and behavioral needs of each breed of laboratory animals.
b.2-Interpret behavioral data of ruminants including normal and abnormal behaviours.
b.3- Correlate behavioral alterations with laboratory animals management and welfare.
b.4-Adopt advanced restraint methods with each laboratory animal species.
b5. Decide start of laboratory animals breeding based on age, weight and sex .
b6. Relate abnormal behavior with welfare and breeding of laboratory animals.
b7. Interpret laboratory animals health and welfare problems .
b8. Adopt advanced methods of drug administration according to health status, sex and weight of laboratory animals.
b9. Utilize behavior to professionally manage laboratory animals house.
b.10-plan to improve reproduction and providing welfare in laboratory animals house.

C- Professional and practical skills

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

c.1. Advise laboratory animals houses manager and researchers with suitable species according to aim of breeding and use in research.
c2. Practice marking of different laboratory animals using advanced methods.
c3. Use behaviour as indicator to proper management, welfare and housing of laboratory animals.
c4. Practice the professional skills of laboratory animals management and breeding.
c.5. Perform advanced methods for animal handling and restraint .
c.6. Interpret and evaluate health status breeding and welfare reports of laboratory animals.
c.7. Manage laboratory animals according to sex and age and aim of use in research.
c.8.Examin laboratory animals using advanced techniques and evaluate their health status report.
c9. Perform advanced methods of drug administration to laboratory animals.
c.10.Use advanced methods and technology for analysis of behavior, management and identification of laboratory animals.
c.11.Write-a report about animal welfare .
c.12. Perform research studies which add to the recent knowledge in laboratory animals management and behavior.
c.13.Formulate scientific papers.
c14.Employ all behavioral and managerial information to improve reproduction in laboratory animals houses.

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 animal 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.

4-Topics and contents

Course	Topic	No. of hours	Lectures	Practical
(Lec. h./week, Pract h./week)	**Course description** - laboratory animals species	16	16	0
	Identification and marking of laboratory animals species	16	16	0
	Behaviour of laboratory animals Behavior of laboratory animals: • Normal behavior of laboratory animals • Abnormal behavior of laboratory animals • Remedy of abnormal behaviors • Recording, observation and • analysis of laboratory animals • Using advanced method of behavior analysis	16	16	0
	Management of laboratory animals • Special management of different breeds of laboratory animals • Professional management of laboratory animals farms • Improve laboratory animals production • laboratory animals welfare	24	24	0
	Handling and restraint of animals	6	0	6

	Sexing of laboratory animals	10	0	10
	Breeding systems of laboratory animals	2	0	2
	Animal health management	2	0	2
	Administration of medicine	16	0	16
	Total	108	72	36

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.9	b.1 – 2,3,5,6,7,8	c.1,2,3, 6 ,7,10	d5
Practical Exam	a.3,5,6,8,9	b.1- b.10	c.1- c.5,10,11	d.1
Oral Exam	a.1- a.8	b.1 – 2,3,5,6,7,8	c.1,2,3, 6 ,7	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%

Beni Suef University
Faculty of Veterinary Medicine

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:

8.2.1.. Domestic Animal Behaviour for Veterinarians and Animal Scientist. Katherine A. Houpt
8.2.2. Animal Behaviour. Drickamer, L.C., Vessey, S.H. and Meikle, D.
8.2.3. Exploring Animal Behaviour. Sherman, P.W. and Alcock, J.
8.2.3. Exploring Animal Behaviour in Laboratory and Field .Ploger, B.J. and Yasukawa, K.

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=mgeTV3NT9O9wOljttpIsZRwOZpw&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
-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.
- 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***

Beni Suef University
Faculty of Veterinary Medicine

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

Course Coordinators Head of Department

	Topics	Wk	Knowledge and Understanding	Intellectual Skills	Pra
1	**Species of small and of laboratory animals**	**1-3rd**	a.1	b.1	C1
2	**Identification and marking of laboratory animals**	**4-9th**	a.2	b.1	C2,1
3	**Behavior of laboratory animals :** **Normal behavior of laboratory animals** **Abnormal behavior of of laboratory animals** • **Remedy of abnormal behaviors** • **Recording, observation and analysis of laboratory animals** • **using advanced method of behavior analysis**	**10-20th**	a.3,a9	b.2,b.3	C3,1
4	**Management of laboratory animals:** • **Special management of different**	**20 -36th**	a.4,a7a.10	b1, b2, b6, b7,b.3, ,b9.b10	C4 ,c

	breeds of laboratory animals • **Professional management of laboratory animals houses** • **Improve of laboratory animals reproduction** • **laboratory animals welfare**				
5	**Handling and restraint of laboratory animals**	**1-8th**	a.5	b.4	c.5
6	**Sexing of laboratory animals**	**9-15th**	a.6	b.5	C6
7	**Breeding systems of laboratory animals**	**16-25th**	a.7	b.6	c.7
8	**Animal health management**	**26-29th**	a.8	b.7	c.8
9	**Administration of medicine**	**30-34th**	a.8	b.8	c.9

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1-Basic information

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

2-Professional information

Overall aims of course:

Overall aims of course:

This course aims to:

1. Deep awareness with the basics of scientific research and advanced methodologies.
2. Adding to the ongoing work in the ruminant farms.
3. Application of advanced analytical methods ruminant behaviours and related areas.
4. Solve all problems of current and modern management in the ruminant farms.
5. Identification of housing problems and finding innovative solutions to them.
6. Mastering a wide range of professional skills in ruminant practical management techniques .
7. Follow the trends toward the development of new method and tools used for management of ruminant.
8. Achieve welfare 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:

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a.1. list all and characters of breeds of poultry and rabbits.
a2. Describe environmental conditions that enhance hatchability and fertility.
a3. Record special behavior of poultry and rabbits and remedy of their bad vices.
a4.Illustrate special managements that providing welfare of poultry and rabbits.
a5.Name the advanced methods for poultry and rabbits handling and restraint.
a.6. Determine egg quality sex of chicks using advanced methods.
a. 7.list advanced rearing systems of poultry and rabbits .
a8. Define advanced methods of drug administration to poultry and rabbits
a.9 Mach advanced method of behaviour analysis with the selected behavioural patterns of poultry and rabbits.

b-Intellectual skills
By the end of this course the student should be able to:
b.1- Identify special characters of each poultry and rabbits breeds and aim of production.
b.2-Interpretnormal and abnormal behavioral data of poultry and rabbits.
b.3- Correlate behavioral alterations and other welfare problems with managements and welfare.
b.4-Adopt advanced restraint methods with each poultry and rabbits species.
b5. Decide culling of eggs that may decrease hatchability percentage.
b6. Relate abnormal behavior with mismanagements and welfare of poultry and rabbits.
b7. Interpret poultry and rabbits health, welfare, fertility and performance.
b8. Adopt advanced techniques of drug administration according to health status of poultry and rabbits..
b9. Utilize behavior to professionally manage poultry and rabbits farms.
b.10-plan to improve production providing welfare in poultry and rabbits farms.
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 and characters of each species.
c2. Manage hatcheries using advanced methods.

c3. Use behaviour as indicator of proper management, welfare and housing of poultry and rabbits.
c4. Practice the professional skills of poultry and rabbits management and breeding.
c.5. Perform advanced methods of handling and restraint of poultry and rabbits.
c.6. Interpret and evaluate health status, welfare and fertility reports of poultry and rabbits.
C.7. Manage layers and breeders to get best egg quality and hatchability.
c.8.Examin poultry and rabbits professionally and evaluate their health status report.
c9. Perform different methods of drug administration to poultry and rabbits.
c.10.Use advanced methods and technology for analysis of behavior, management and identification of poultry and rabbits.
c.11.Write-a report about poultry and rabbits welfare .
c.12. Perform research studies which add to the recent knowledge in ruminants management and behavior.
c.13.Formulate scientific papers.
c14.Employ all behavioral and managerial information to improve production and performance in ruminant farms.

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

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 -Advanced methods of hatcheries management	16	16	0
	Behaviour of poultry and rabbits Behavior of poultry and rabbits: • Normal behavior of poultry and rabbits • Abnormal behavior of poultry and rabbits • Remedy of abnormal behaviors • Recording, observation and • analysis of poultry and rabbits • Using advanced method of behavior analysis	16	16	0
	Management of poultry and rabbits • Special management of different breeds of poultry and rabbits • Professional management of poultry and rabbits farms • Advanced rearing systems • Improve poultry and rabbits production	24	24	0

	• poultry and rabbits welfare			
	Handling and restraint of animals	6	0	6
	Egg quality tests -Advanced methods of detecting egg quality	10	0	10
	Practical Management techniques	2	0	2
	Health management	2	0	2
	Administration of medicine	16	0	16
	Total	108	72	36

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.9	b.1 – 2,3,5,6,7,8	c.1,2,3, 6 ,7,10	d5
Practical Exam	a.3,5,6,8,9	b.1- b.10	c.1-	d.1

			c.5,10,11	
Oral Exam	a.1- a.8	b.1 – 2,3,5,6,7,8	c.1,2,3, 6 ,7	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. <u>Notes and books:</u>

- 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**

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	Topics	Wk	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.7**
2	• **Hatcheries** • **Advanced methods of hatcheries management**	**4-9th**	a.2	b.1	C2,10	**d.1-d.7**
3	**Behaviour of poultry and rabbits** **Behavior of poultry and rabbits:** • **Normal behavior of poultry and rabbits** • **Abnormal behavior of poultry and rabbits** • **Remedy of abnormal behaviors** • **Recording, observation and** • **analysis of poultry and rabbits** • **Using advanced method of behavior analysis**	**10-20th**	a.3,a9	b.2,b.3	C3,10	**d.1-d.7**
4	**Management of poultry and rabbits** • **Special management of different breeds of poultry and rabbits** • **Professional management of poultry and rabbits farms** • **Advanced rearing systems** • **Improve poultry and rabbits production** • **poultry and rabbits welfare**	**20 -36th**	a.4,a.10	b.3,b2,b9.b10	C4 ,c11	**d.1-d.7**

5	**Handling and restraint of animals**	**1-8th**	a.5	b.4	c.5	**d.1-d.7**
6	**Egg quality tests** **-Advanced methods of detecting egg quality**	**9-15th**	a.6	b.5	C6	**d.1-d.7**
7	**- Practical Management techniques**	**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**

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Course specification of postgraduate

B 1-Basic information'

Course Code:	Ph-44
Course title :	Behaviour and Management of Ruminant Animals (cattle- buffaloe, sheep, goat, camels)
Program title:	Doctoral
	Lecture: 2 practical : 3 Total: 5
Approval Date	

2-Professional information

Overall aims of course:

This course aims to:

1. Deep awareness with the basics of scientific research and advanced methodologies.
2. Adding to the ongoing work in the ruminant farms.
3. Application of advanced analytical methods ruminant behaviours and related areas.
4. Solve all problems of current and modern management in the ruminant farms.
5. Identification of housing problems and finding innovative solutions to them.
6. Mastering a wide range of professional skills in ruminant practical management techniques .
7. Follow the trends toward the development of new method and tools used for management of ruminant.
8. Achieve welfare 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 breeds of different ruminant species.
a2. Specify characters of each ruminant breeds.
a3. Record special normal and abnormal of ruminant and remedy of bad vices.
a4.Illustrate special managements that providing welfare of ruminant.
a5.Name the advanced method for ruminant securing.
a.6.Determine age and condition score of different ruminant species.
a. 7.list special practical managment techniques of small and large ruminant.
a8. Define animal health and advanced methods of drug administration to ruminant.
a.9 Mach advanced method of behaviour analysis with the selected behavioural patterns of ruminant.

Course specification of postgraduate

b-Intellectual skills

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

b.1- Identify characters of each breed of small and large ruminant.
b.2-Interpret behavioral data of ruminants including normal and abnormal behaviours.
b.3- Correlate behavioural alterations with ruminant management and welfare.
b.4-Adopt restraint methods with each animal species, production and temperament.
b5. Decide culling of animals from production based on age and health status .
b6. Relate abnormal behavior with mismanagements and welfare of ruminant.
b7. Interpret small and large ruminant health and production.
b8. Adopt new methods of drug administration according to health status and age of animal.
b9. Utilize behavior to professionally manage and providing welfare of ruminant farms.
b.10-plan to improve production providing welfare in ruminant farms.

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 breeding and advanced rearing systems.
c2. Write identification certificate for ruminant.
c3. Use behaviour as indicator to proper management, welfare and housing of ruminant.
c4. Practice the professional skills and advanced systems of ruminant management.
c.5. Perform advanced methods for animal approach and handling, securing .
c.6. Interpret and evaluate health status reports of ruminant.
c.7. Manage ruminants according to sex and age.
c.8. Examin ruminant professionally and evaluate of their health status report.
c9. Perform different methods of drug administration to small and large ruminant.
c.10.Use advanced methods and technology for analysis of behavior, management and identification of ruminants.
c.11.Write-a report about animal welfare .
c.12. Perform research studies which add to the recent knowledge in ruminants management and behavior.
c.13.Formulate scientific papers.
c14.Employ all behavioral and managerial information to improve production and performance in ruminant farms.

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 ruminanat 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

Course specification of postgraduate

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)	Course description - Breeds of small and large ruminant	6	6	0
	Description and identification of small and large ruminant • Writing certificate • Electronic Identification	12	12	0
	Behaviour of small and large ruminantS Behavior of small and large ruminnats: • Normal behavior of ruminant • Abnormal behavior of ruminant • Remedy of abnormal behaviors • Recording, observation and • analysis of ruminant • Using advanced method of behavior analysis	16	16	0
	Management of ruminant • Special management of different breeds of ruminant • Professional management of ruminant farms • Improve ruminant production • Ruminant welfare	36	36	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	16	0	16
	Administration of medicine	16	0	16
	Total	180	72	108

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Course specification of postgraduate

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.9	b.1 – 2,3,5,6,7,8	c.1,2,3, 6 ,7,10	d5
Practical Exam	a.3,5,6,8,9	b.1- b.10	c.1- c.5,10,11	d.1
Oral Exam	a.1- a.8	b.1 – 2,3,5,6,7,8	c.1,2,3, 6 ,7	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

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:

Course specification of postgraduate

- **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
- 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**

Topics	Wk	Knowledge and Understanding	Intellectual Skills	Pra

Course specification of postgraduate

1	**Breeds of small and large ruminant**	**1-3rd**	a.1	b.1	C1
2	**Description and identification small and large ruminant** • **Writing certificate** • **Electronic Identification**	**4-9th**	a.2	b.1	C2,1
3	**Behavior of small and large ruminant:** • **Normal behavior of small and large ruminant** • **Abnormal behavior of small and large ruminant** • **Remedy of abnormal behaviors** • **Recording, observation and analysis of small and large ruminant** • **using advanced method of behavior analysis**	**10-20th**	a.3,a9	b.2,b.3	C3,1
4	**Management of ruminant:** • **Special management of different breeds of small and large ruminant** • **Professional management of small and large ruminant farms** • **Improve small and large ruminant production** • **Small and large ruminant welfare**	**20 -36th**	a.4,a.10	b.3,b2,b9.b10	C4 ,c
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

Course specification of postgraduate

Course specification

Beni-Suef University
Faculty of Veterinary Medicine

Course specification of postgraduate

1-Basic information'

Course Code:	Ph-45
Course title :	Behaviour and Management of Equines
Program title:	Doctoral
	Lecture: 2 practical : 3 Total: 5
Approval Date	

2-Professional information

Overall aims of course:

This course aims to:

1. Deep awareness with the basics of scientific research and advanced methodologies.
2. Adding to the ongoing work in the equine farms.
3. The application of advanced analytical methods of equine behaviours field and related areas.
4. Solve all problems of current and modern management in the equine farms.
5. Identification of housing problems and finding innovative solutions to them.
6. Mastering a wide range of professional skills in equine practical management techniques .
7. Follow the trends toward the development of new method and tools used for management equine
8. Achieve welfare 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 equines.
a2. Specify characters of each equine breed.
a3. Record special normal and abnormal of equines and their remedy.
a4.Illustrate special managements that providing welfare of equines.
a5.Name the advanced method for all equine securing.
a.6.Determine age of equines.
a. 7.list special practical managment techniques of equines .
a8. Define animal health and advanced methods of drug administration.
a.9 Mach advanced method of behavior analysis with the selected behavioral patterns.

b-Intellectual skills

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

b.1- Identify characters of each equine breed.
b.2-Interpret behavioral data of equines including normal and abnormal behaviors.

Course specification of postgraduate

b.3- Correlate behavioral alterations with equine management and welfare.
b.4-Adopt advanced restraint methods with each animal temperament.
b5. Deal with problem of changing horse age(bishopping) .
b6. Relate abnormal behavior with mismanagements.
b7. Interpret animal health and reproduction .
b8. Adopt methods of drug administration according to health status and age of animal.
b9. Utilize behavior to professionally manage horse farms.
b.10-plan to improve reproduction in equine farms.

C- Professional and practical skills

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

c.1. Advise equine farms with new methods of equine learning
c2. Write professionally an identification certificate for equine.
c3. Use behavior as indicator of proper management, welfare and housing of equines.
c4. Practice the professional skills of equine management that providing welfare and improve temperament.
c.5. Perform advanced methods for animal approach and handling, securing .
c.6. Interpret and evaluate health status and reproduction reports of equines.
C.7. Manage equines according to sex and age.
c.8.Examin animals professionally and evaluate their health status report.
c9. Perform advanced techniques of drug administration.
c.10.Use advanced methods and technology for analysis of behavior, management and identification of equines.
c.11.Write-a report about animal welfare
c.12. Perform research studies which add to the recent knowledge in equine management and behavior.
c.13.-Formulate scientific papers.

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.

Course specification of postgraduate

4-Topics and contents

Course	Topic	No. of hours	Lectures	Practical
(Lec. h./week, Pract h./week)	**Course description** **- Breeds of equine**	6	6	0
	Description and identification • **Writing certificate** • **Electronic Identification**	12	12	0
	Behaviour of equines **Behavior of equines:** • **Normal behavior of equines** • **Abnormal behavior of equines** • **Remedy of abnormal behaviors** • **Recording, observation and analysis of equines** • **Using advanced method of behavior analysis**	16	16	0
	Management of equines • **Special management of different breeds of equines** • **Professional management of horse farms** • **Improve equine production** • **Equine welfare**	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

Course specification of postgraduate

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.9	b.1 – 2,3,5,6,7,8	c.1,2,3, 6 ,7,10	d5
Practical Exam	a.3,5,6,8,9	b.1- b.10	c.1- c.5,10,11	d.1
Oral Exam	a.1- a.8	b.1 – 2,3,5,6,7,8	c.1,2,3, 6 ,7	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

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

Course specification of postgraduate

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
- Animal Breeding Abstracts
- Journal of Animal Science
- Canadian Journal of Animal Science
- Animal Reproduction Science

Websites:

-American Association of Animal Science

Course Coordinators **Head of Department**

	Topics	Wk	Knowledge and Understanding	Intellectual Skills	Pra
1	**Breeds of equines.**	**1-3rd**	a.1	b.1	C1
2	**Description and identification**	**4-9th**	a.2	b.1	C2,1

Course specification of postgraduate

	• Writing certificate • Electronic Identification				
3	Behavior of equines: • Normal behavior of equines • Abnormal behavior of equines • Remedy of abnormal behaviors • Recording, observation and analysis of equines • using advanced method of behavior analysis	10-20th	a.3,a9	b.2,b.3	C3,1
4	Management of equines: • Special management of different breeds of equines • Professional management of horse farms • Improve equine production • Equine welfare	20 -36th	a.4,a.10	b.3,b2,b9.b10	C4 ,c
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

Course specification