Beni-Suef University
Faculty of Veterinary Medicine
Department of Animal Medicine

Program Specification for Ph. Degree
2017-2018

A-Basic information:

1- **Program title:** *PhD VSC, **Code:** Ph-INMD*
2- **Specialty:** Veterinary Internal Medicine
3- **Program type:** *Single*
4- **Department offering program:** *Animal Medicine*
5- **Academic year:** *2017-2018*
6- **Approval date of Department Council:**
7- **Approval date of Faculty Council:**
8-**External evaluator:**

B-Professional information:

1- Overall aims of the program:

1-Recognize all theories, principles and basics of his/her area of learning ,the academic background and clinical experience about the most important disease problems encountered in animals.
2-Define the disease problem, outline the cause, understand the pathophysiology, collect the data for diagnoses, analyze the data and find the correlation to make up diagnosis and prognosis.
3- Provide graduates the opportunity to develop communication skills, develop the ability to engage critically with scientific literature and understand the principles of scientific writing.

2- Intended learning outcomes of course (ILOs):

a- Knowledge and understanding:

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

a1- Describe advanced research techniques used in the field of Internal Veterinary Medicine.
a2- Apply their knowledge and understanding of Internal Veterinary Medicine to the critical analysis and discussion of the scientific literature.
a3-Illustrate the pathophysiology of the diseases or disease problems.

a4-Diagnose, treat and deal with the disease problem in farm animals and pets (according Animal species he studied).

a5-Analyze the data and find correlation to take a decision.

a6-Differentiate between diseases causing similar problems.

b- Intellectual capacity:

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

b1- Identify , conceptualize and define research problems and questions

b2- critically evaluate the research data and develop new approach to deal with the research questions

b3- develop creative approaches to solve technical problems or issues associate with running and researches project.

b4- identify , summarize and evaluate prior researches finding in a specific area

b5-Critically evaluate their own research data and develop new approach to solving their research questions

b6-Develop creative approaches to solving technical problems or issues associate with running and researches project.

b7-Identify, summarize and evaluate prior researches finding in a specific area.

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 internal veterinary medicine with a consideration to technical , ethical and safety issues and associated costs.

c4-Collect the data and the samples for his research project and perform review or essays on his research topic.

d- General and transferable skills:

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

d1-Demonstrate an ability to learn independently in preparation for a career of lifelong learning .

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

d3-Present research finding in oral and written from using arrange of

appropriate soft ware (e.g., power point , word , excel and data base).

d4-Demonstrate problem solving by using IT.

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- Program 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
		theoretical	practical		
	Selected (3-5) Ph. Courses 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 Veterinary Internal Medicine.
- 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 one or more staff members of internal veterinary medicine, faculty of veterinary medicine, Beni-Suef University- 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 two scientific papers from the thesis in local or international journals.

B- Matrix alignment of the measured ILOs

8- Evaluation of Program Intended Learning Outcomes

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-a6	b1-b6	c1, c2	-----
Practical exam	a1,a2,a3,a4	b3,b4,b5,b6	c1,c2,c3,c4	d1,d2,d3,d4
Oral exam	a3,a4,a5,a6	b1,b2,b4	c1,c4	d1,d2

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

Program ILOs		Courses
Knowledge and understanding	a1	Ph-130 to Ph-139
	a2	Ph-130 to Ph-139
	a3	Ph-130 to Ph-139
	a4	Ph-130 to Ph-139
	a5	Ph-130 to Ph-139
	a6	Ph-130 to Ph-139
Intellectual skills	b1	Ph-130 to Ph-139
	b2	Ph-130 to Ph-139
	b3	Ph-130 to Ph-139
	b4	Thesis
	b5	Thesis
	b6	Thesis
	b7	Thesis
Professional and practical skills	c1	Thesis
	c2	Thesis
	c3	Thesis
	c4	Thesis
General and transferable skills	d1	Ph-130 to Ph-139
	d2	Ph-130 to Ph-139
	d3	Thesis
	d4	Ph-130 to Ph-139

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**	**a6**	**b1**	**b2**	**b3**	**b4**	**b5**	**b6**	**b7**	**c1**	**c2**	**c3**	**c4**	**c5**	**c6**	**d1**	**d2**	**d3**	**d4**	**d5**
Knowledge and understanding	a1	√																							
	a2		√																						
	a3			√																					
	a4				√																				
	a5					√																			
	a6						√																		
Intellectual skills	b1							√																	
	b2								√																
	b3									√															
	b4										√														
	b5											√													
	b6												√												
	b7													√											
Professional and practical skills	c1														√										
	c2															√									
	c3																√								
	c4																	√							
	c5																		√						
	c6																								

General and transferable skills	**d1**																				√				
	d2																					√			
	d3																						√		
	d4																							√	
	d5																								
	d6																								

Course coordinator: **Head of the Department:**

Program aims – ILOS Matrix

Program ILOS	Program ILOs	Program aims		
		1-Recognize all theories, principles and basics of his/her area of learning ,the academic background and clinical experience about the most important disease problems encountered in animals.	2-Define the disease problem, outline the cause, understand the pathophysiology, collect the data for diagnoses, analyze the data and find the correlation to make up diagnosis and prognosis.	3- Provide graduates the opportunity to develop communication skills, develop the ability to engage critically with scientific literature and understand the principles of scientific writing.
Knowledge and understanding	a1- Describe advanced research techniques used in the field of Internal Veterinary Medicine.	√		
	a2- Apply their knowledge and understanding of Internal Veterinary Medicine to the critical analysis and discussion of the scientific literature.	√		
	a3-Illustrate the pathophysiology of the diseases or disease problems.	√		
	a4-Diagnose, treat and deal with the disease problem in farm animals and pets (according Animal species he studied).	√		
	a5-Analyze the data and find correlation to take a decision.	√		
	a6-Differentiate between diseases causing similar problems.	√		
Intellectual skills	b1- Identify , conceptualize and define research problems and questions	√	√	√
	b2- critically evaluate the research data and develop new approach to deal with the research questions		√	√
	b3- develop creative approaches to solve technical problems or issues associate with running and researches project.		√	√
	b4- identify , summarize and evaluate prior		√	√

Program ILOS	Program ILOs	Program aims		
		1-Recognize all theories, principles and basics of his/her area of learning ,the academic background and clinical experience about the most important disease problems encountered in animals.	2-Define the disease problem, outline the cause, understand the pathophysiology, collect the data for diagnoses, analyze the data and find the correlation to make up diagnosis and prognosis.	3- Provide graduates the opportunity to develop communication skills, develop the ability to engage critically with scientific literature and understand the principles of scientific writing.
	researches finding in a specific area			
	b5-Critically evaluate their own research data and develop new approach to solving their research questions		√	√
	b6-Develop creative approaches to solving technical problems or issues associate with running and researches project.		√	√
	b7-Identify, summarize and evaluate prior researches finding in a specific area.		√	√
Practical and professional skills	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 internal veterinary medicine with a consideration to technical , ethical and safety issues and associated costs.		√	
	c4-Collect the data and the samples for his research project and perform review or essays on his research topic.		√	
General and transferable skills	d1-Demonstrate an ability to learn independently in preparation for a career of lifelong learning .			√
	d2-Demonstrate interpersonal skills and team working ability by the successful completion of collaborative learn assignment and the honors researches projects			√

Program ILOs		Program aims		
Program ILOS		1-Recognize all theories, principles and basics of his/her area of learning ,the academic background and clinical experience about the most important disease problems encountered in animals.	2-Define the disease problem, outline the cause, understand the pathophysiology, collect the data for diagnoses, analyze the data and find the correlation to make up diagnosis and prognosis.	3- Provide graduates the opportunity to develop communication skills, develop the ability to engage critically with scientific literature and understand the principles of scientific writing.
	d3-Present research finding in oral and written from using arrange of appropriate soft ware (e.g., power point , word , excel and data base).			√
	d4-Demonstrate problem solving by using IT.			√