Beni Suef University
Faculty of Veterinary Medicine
Department of Surgery, anesthesiology and Radiology

Program Specification for Master Degree
2017-2018

A-Basic information:

1- Program title: Master degree in Surgery, Anesthesiology and Radiology
2- Program type: *Single*
3- Department offering program: Surgery, anesthesiology and Radiology
4-Academic year: 2017-2018
5-Approval date of Department Council:
6-Approval date of Faculty Council:
7-External evaluator: Prof. Dr. Samy Farghali Ismaiel

B-Professional information:

1- Overall aims of the program:

1. Provide graduates the opportunity to develop communication skills.
2. Use efficiently the most recent techniques and improve the skills of scientific research
3. Collect, manage and analyze the scientific data in veterinary surgery, anesthesiology and radiology practice.
4. Write the dissertation, scientific papers and applies for scientific projects.
5. Enable graduates to achieve competency in modern technology
6. Allow graduates to develop practical research project.
7. Develop the ability of graduate to engage critically with scientific literature and to critically review and present their own research data.

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. Recognize causes , and diagnosis of surgical affections
a.2. Acquire the basic principles in dealing with surgical affections
a.3. Recall the basic principles of anesthetic techniques and materials.

a.4. Describe the relationship between the used anesthetic techniques and materials and surgical interferences.
a.5. Identify basic principles of X-ray machine and film processing

b- Intellectual skills:

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

b1- Conceptualize and define research problems and questions

b2- Evaluate their own research data and develop new approach to solve their 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

c- Professional and practical skills:

On successful completion of this 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- practice the new technology in practical portion

c4- Prepare surgical operation and being decision maker.

d- General and transferable skills:

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

d.1 Demonstrate information retrieval and library skills
d.2 Demonstrate interpersonal skills and team working ability by the successful completion of collaborative learn assignment and the honors researches projects
d.3. Using the research finding in oral and written from using arrange of appropriate software (e.g., power point , word , excel and data base).

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 exceed 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:-

Theoretical	4	Practical	7	Total	11

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 at least two 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:

Assessments methods	**Matrix alignment of the measured ILOs**

All master-degree students should prepare a thesis in **Milk Hygiene**. 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

	K&U (a)	I.S (b)	P&P. S (c)	G&T. S (d)
written exam	a3, a4	b3	c1,c2,c4	d2
Practical exam	a1	b1,b2,b3,b4	c1,c2,c3	d1,d2
Oral exam	a1,a2	b1,b3	c2	

Course coordinator **Head of the Department**

Dr. Mohammed Zaki

Master Program Specification Matrix (Program Courses with ILOS)

Program ILOs		courses
Knowledge and understanding	a1	Principle,166, 167,169
	a2	Principle,166, 167 ,169
	a3	168
	a4	Principle,166, 167 , 168,169
	a5	169
Intellectual skills	b1	Principle, 166,thesis
	b2	thesis
	b3	thesis
	b4	Principle, 114,115,116,118,119
Professional and practical skills	c1	Principle,166, 167 , 168,169
	c2	principle

	c3	166, 167 , 168,169
	c4	Principle,166, 167 , 168,169
General and transferable skills	**d1**	Principle,166, 167 , 168,169
	d2	166, 167 , 168,169
	d3	Principle,166, 167 , 168,169

Program aims – ILOS Matrix for the Master Degree

مصفوفة اهداف البرنامج مع مخرجات التعلم المستهدفة

Program ILOS		**Program aims**	
		a- Provide the students with a profound cutting-edge education in the field of veterinary medicine to serve their community by solving problems	b-Boast the students' knowledge and skills to b efficient and productive members in the field of veterinary medicine
Knowledge and understanding	a1- Recognize causes , and diagnosis of surgical affections	√	
	a2- Acquire the basic principles in dealing with surgical affections	√	
	a3- Recall the basic principles of anesthetic techniques and materials.	√	
	a4- Describe the relationship between the used anesthetic techniques and materials and surgical interferences. .	√	
	a5- Identify basic principles of X-ray machine and film processing	√	
Intellectual skills	b1- Conceptualize and define research problems and questions	√	√
	b2- Evaluate their own research data and develop new approach to solve their research questions		√
	b3- Develop creative approaches to solve technical problems or issues associate with running and researches project.		√

Program ILOS		Program aims	
		a- Provide the students with a profound cutting-edge education in the field of veterinary medicine to serve their community by solving problems	b-Boast the students' knowledge and skills to b efficient and productive members in the field of veterinary medicine
	b4- 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- practice the new technology in practical portion		√
	C4- Prepare surgical operation and being decision maker.		√
General and transferable skills	d1- Demonstrate information retrieval and library skills.		
	d2- Demonstrate interpersonal skills and team working ability by the successful completion of collaborative learn assignment and the honors researches projects.		
	d3- Using the research finding in oral and written from using arrange of appropriate software (e.g., power point , word , excel and data base).		

Master 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	**a 3**	**a 4**	**a5**	**a6**	**b1**	**b 2**	**b 3**	**b4**	**b 5**	**b6**	**c1**	**c2**	**c3**	**c4**	**c5**	**c6**	**d1**	**d2**	**d3**	**d4**	**d5**
Knowledge and understanding	a1	√																						
	a2		√																					
	a3			√																				
	a4					√																		
	a5						√																	
Intellectual skills	b1										√													
	b2								√															
	b3												√											
	b4											√												
Professional and practical skills	c1															√								
	c2															√								
	c3														√									
	c4													√										
General and transferable skills	**d1**																							√
	d2																					√		
	d3																				√			

Beni-Suef University
Faculty of Veterinary Medicine

Course specification of postgraduate

1-Basic information

Course Code:	**MPC-SUG**
Course title :	**Principle Master Course (Surgery, Anesthesiology and Radiology)**
Program title:	**Master degree in Surgery, Anesthesiology and Radiology.**
Contact hours/ week	**Lecture: 3 – Practical: 4 - Total: 7 hours/ week**
Approval Date	

2-Professional information

Overall aims of course:

This course aims to:

1- Use efficiently the most recent techniques and improve the skills of scientific research
2- Collect, manage and analyze the scientific data in veterinary surgery, anesthesiology and radiology practice.
3- Write the dissertation, scientific papers and applies for scientific projects.
4- Enable graduates to achieve competency in modern technology
5- Allow graduates to develop practical research project.
6- Develop the ability of graduate to engage critically with scientific literature and to critically review and present their own research data.

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. Recognize causes , and diagnosis of surgical affections
a.2. Acquire the basic principles in dealing with surgical affections
a.3. Recall the basic principles of anesthetic techniques and materials.
a.4. Describe the relationship between the used anesthetic techniques and materials and surgical interferences.
a.5. Identify basic principles of X-ray machine and film processing

b-Intellectual skills

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

b1- Conceptualize and define research problems and questions
b2- Evaluate their own research data and develop new approach to solve their 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. Recall the ethical and scientific principles of medical research.
b6. Perform the research plan of his/her MD thesis.

C- Professional and practical skills

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

Course specification of postgraduate

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- practice the new technology in practical portion
c4- Prepare surgical operation and being decision maker
c5. Perform statistical analysis for data and write efficiently scientific paper and dissertation

d- General and transferable skills

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

d.1 Demonstrate information retrieval and library skills
d.2 Demonstrate interpersonal skills and team working ability by the successful completion of collaborative learn assignment and the honors researches projects
d.3. Using the research finding in oral and written from using arrange of appropriate software (e.g., power point , word , excel and data base).
d4- Manage scientific meetings and time.
d5- Enhancement of his/her effective presentation skills.

4-Topics and contents

Course	Topic	No. of hours	Lectures	Practical
(Lec. 3h./week, Pract 4h./week)	**Surgery**			
	Tendons and tendon sheath affections	7	3	4
	Bone affections	14	6	8
	Joint affections	7	3	4
	Necrosis, ulcers and gangrene	7	3	4
	Teeth affections	7	3	4
	Urogenital system affections	14	6	8
	Digestive system affections	7	3	4
	Udder and teat affections	7	3	4
	Ear affections	7	3	4
	Introduction to lameness and its diagnosis	7	3	4
	Hoof affections	14	6	8
	Veterinary ophthalmology	7	3	4
	Veterinary ophthalmology	7	3	4
	Strategy of animal selection for experimental surgery	7	3	4
	Strategy of animal selection for experimental surgery	7	3	4
	Anesthesiology			
	Introduction to veterinary anesthesiology	14	6	8

Course specification of postgraduate

	Regional analgesia	14	6	8
	Regional analgesia	14	6	8
	- pre anesthetic medication	7	3	4
	General anesthesia	14	6	8
	General anesthesia	7	3	4
	Intraoperative monitoring	14	6	8
	Intraoperative monitoring	7	3	4
	Radiology			
	- Introduction of radiology & Us.	14	6	8
	- Radiographic protection & Poisoning	7	3	4
	Students activities	7	3	4

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 food 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	a1 to a5	b1 to b6		
Practical Exam			c1 to c5	
Oral Exam	a1 to a5	b1 to b6	c1 to c5	d1 to d5

7.2. Assessment schedules

Method	**Week(s)**
Writing exam	Week:52, 53, 54,55
Practical exam	Week:52, 53, 54,55
Oral exam	Week:52, 53, 54,55

7.3. Weight of assessments

Assessment	Weight of assessment
Writing exam	**50%**
Practical exam	**30%**
Oral exam	**20%**
total	100%

Course specification of postgraduate

8- List of references

8.1. Notes and books

-Veterinary surgery.	D.Knech. R.AIIen.	1987

8.2. Essential books:

-Farm Animal Surgery.	Susane Fubini.	1987
-Equine lameness 5th Ed.	Adams	2006

8.3. Recommended texts

- Atlas of general large animal surgery.	Caywood. Lipowitz.	1989
- Bovine surgery and lameness.	Alan.J. lipowitz	2015

8.4. Journals, Websites ……..etc

Journals: Veterinary surgery, Veterinary Clinics of North America.

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

Program coordinator	**Head of the Department**
Name: Dr. Mohamed Zaki Fathy	**Name: Prof.Dr. Gamal Abdel Nasser**
Signature..... Date	**Signature..... Date**

Beni Suef University
Faculty of Veterinary Medicine

Course specification

	Topics	week	Intended learning outcomes of course (ILOs)			
			K and U (a)	I.S (b)	P. P.S. (c)	G.T.S (d)
1	**Tendons and tendon sheath affections**	1	**a1**	**b1**	**c4**	
2	**Bone affections**	2-3	**a2**	**b4**	**c1**	
3	**Joint affections**	4	**a3**	**b4**		
4	**Necrosis, ulcers and gangrene**	5	**a3**			
5	**Teeth affections**	6	**a7**			
6	**Urogenital system affections**	7-8	**a7**	**b1**	**c1, c4**	
7	**Digestive system affections**	9	**a8**	**b4**		
8	**Udder and teat affections**	10	**a6**			
9	**Ear affections**	11	**a7**			
10	**Introduction to lameness and its diagnosis**	12	**a4**			
11	**Hoof affections**	13-14			**c2, c3**	
12	**Veterinary ophthalmology**	15	**a6**	**b3, b4**	**c4**	
13	**Veterinary ophthalmology**	16	**a6**	**b4**		
14	**Strategy of animal selection for experimental surgery**	17	**a6**			

Course specification

15	**Strategy of animal selection for experimental surgery**	18	**a6**			
16	**Anesthesiology**	19-20	**a8**		**c4**	
17	**Introduction to veterinary anesthesiology**	21-22			**c2, c4**	
18	**Regional analgesia**	23-24	**a5**	**b3**		
19	**Regional analgesia**	25		**b4**	**c3, c4**	
20	**- pre anesthetic medication**	26-27	**a7**			
21	**General anesthesia**	28	**a6**		**c4**	
22	**General anesthesia**	29-30	**a6**		**c2, c4**	
23	**Intraoperative monitoring**	31				
24	**Intraoperative monitoring**	32				
25	**Introduction of radiology & Us.**	33-34				
26	**Radiographic protection & Poisoning**	35				
27	Student activities: - Food plants visits - Writing assays - Internet search	36	**a1-a4**	**b2, b6**	**C5**	**d1-d5**

Beni-Suef University
Faculty of Veterinary Medicine

Course specification of postgraduate

1-Basic information

Course Code:	**M-166**	
Course title :	**Equine Lameness and Claw affections**	
Program title:	**Master degree In Veterinary Medical Sciences (Surgery)**	
Contact hours/ week	**Lecture: 2 h / week**	**Practical: 2 h / week**
Approval Date		

2-Professional information

Overall aims of course:

This course aims to:

1. Gain the practical experience about Equine Lameness and Claw affections.
2. Introducing the academic background and practical experience about basic principles of surgical interferences and treatment limbs, hoof and claw affections.

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. Recognize causes , and diagnosis of musculoskeletal disorders.

a.2. Define the biomechanics of musculoskeletal system and mal-conformations of equine limbs

a.3. Recall and Explain the anatomy of hoof and claws.

a.4. List the common surgical affections of the hoof and claws.

B-Intellectual skills

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

b.1. Discriminate and analysis of clinical and laboratory findings to reach the accurate diagnosis.

b.2. Interpret and predict the prognosis and sequllae of surgical affections.

b.3. Score of suitability of using defined Surgical techniques.

b.4. identify areas where further researches necessary and be aware of any which would be beyond current ethical codes.

C- Professional and practical skills

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

c.1. Assess experience in clinical and laboratory diagnosis of surgical affections

c.2. Perform different surgical techniques.

c.3. using the new technology in practical portion of lameness.

c.4. follow up the treated cases and control of postoperative complications.

D- General and transferable skills

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

d.1 Demonstrate information retrieval and library skills

d.2 Demonstrate interpersonal skills and team working ability by the successful completion of collaborative learn assignment and the honors researches projects

Course specification of postgraduate

d.3. present research finding in oral and written from using arrange of appropriate software (e.g., power point , word , excel and data base).
d.4. use all types of communications skills.

4-Topics and contents

Course	Topic	No. of hours	Lectures	Practical
(Lec. 2h./week, Pract. 2h./week)	- Introduction to lameness and its diagnosis	16	8	8
	- Fore limb affections	44	22	22
	- Hind limb affections	28	14	14
	- Hoof affections	40	20	20
	- Claw affections	16	8	8

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 application of advanced surgical technique (models, samples of tissues and data show).
5.4- Self learning by preparing essays and presentations (computer researches and library)

7-Student assessment

7.1. Assessments methods:

Method	Matrix alignment of the measured ILOs/ Assessments methods			
	K&U	I.S	P&P.S	G.S
Final Exam	a1- a2- a3-	b1- b2- b3-	c1- c2- c3- c4	d1- d2
Practical Exam	a1- a2- a3	b1- b2- b3-	c1- c2- c3- c4	
Oral Exam	a1- a2- a3-	b1- b2- b3-	c1,c3	d1-d2-d3-d4

Course specification of postgraduate

7.2. Assessment schedules

Method	Week(s)
Writing exam	December
Practical exam	December
Oral exam	December

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

-Veterinary surgery. D.Knech. R.AIIen. 1987

8.2. Essential books:

-Farm Animal Surgery. Susane Fubini. 1987
-Equine lameness 5th Ed. Adams 2006

8.3. Recommended texts

- Atlas of general large animal surgery. Caywood. Lipowitz. 1989
- Bovine surgery and lameness. Alan.J. lipowitz 2015

8.4. Journals, Websites ……..etc

Journals: Veterinary surgery, Veterinary Clinics of North America.

Websites:

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

Program coordinator
Name: Dr. Mohamed Zaki Fathy
Signature..... Date

Head of the Department
Name: Prof.Dr. Gamal Abdel Nasser
Signature..... Date

Course specification

	Topics	week	Intended learning outcomes of course (ILOs)			
	Equine Lameness and claw affections		K and U (a)	I.S (b)	P. P.S. (c)	G.T.S (d)
1	- Introduction to lameness and its diagnosis	- 1st w- 4th w	1,2,3	1,2,3	1,2,4	1,2,3
2	- Fore limb affections	- 5th w- 15th w	1,2,3	1,3	1,2,3,4	1,2,3,4
3	- Hind limb affections	- 16th w- 22th w	1,2	1,2,3	1,2,3	1,2,3,4
4	- Hoof affections	- 23th w- 32th w	1,2	1,2,3	1, 3	1,2,3,4
5	- Claw affections	- 33st w- 36th w	1,2,3	1,2,3	1,2,4	1,2,3

Beni-Suef University
Faculty of Veterinary Medicine

Course specification of postgraduate

1-Basic information

Course Code:	**M-167**	
Course title :	**Experimental Surgery**	
Program title:	**Master degree In Veterinary Medical Sciences (Surgery)**	
Contact hours/ week	**Lecture: 2 h / week**	**Practical: 2 h / week**
Approval Date		

2-Professional information

Overall aims of course:

This course aims to:

1. Acquired the academic background and practical experience in the field of experimental surgery.
2. Have experience about experimental designs.

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. Recognize the strategy of animal selection and types of experimental animals

a.2. Recognize the line of sampling

a.3. List the common experimental surgical techniques.

a.4. Recognize The animal euthanasia.

B-Intellectual skills

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

b.1. Discriminate and analysis of clinical and laboratory findings to reach the accurate diagnosis.

b.2. Interpret and predict the prognosis and sequllae of general surgical affections.

b.3. Score of suitability of using defined Surgical techniques.

b.4. identify areas where further researches necessary and be aware of any which would be beyond current ethical codes.

C- Professional and practical skills

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

c.1. Assess experience in clinical and laboratory diagnosis of surgical affections

c.2. Perform different surgical techniques.

c.3. using the new technology in practical portion.

c.4.follow up the treated cases and control of postoperative complications.

D- General and transferable skills

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

d.1 Demonstrate information retrieval and library skills

d.2 Demonstrate interpersonal skills and team working ability by the successful completion of collaborative learn assignment and the honors researches projects

d.3. present research finding in oral and written from using arrange of appropriate software (e.g., power point , word , excel and data base).

Course specification of postgraduate

d.4. use all types of communications skills.

4-Topics and contents

Course	Topic	No. of hours	Lectures	Practical
(Lec. 2h./week, Pract. 2h./week)	- Types of experimental animals	12	6	6
	- Strategy of animal selection for experimental surgery	16	8	8
	- Sampling	16	8	8
	- Animal control	16	8	8
	- Animal euthanasia	16	8	8
	- Pathological sampling artifacts.	20	10	10
	- Some experimental surgery technique	48	24	24

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 application of advanced surgical technique (models, samples of tissues and data show).
5.4- Self learning by preparing essays and presentations (computer researches and library)

7-Student assessment

7.1. Assessments methods:

Method	Matrix alignment of the measured ILOs/ Assessments methods			
	K&U	I.S	P&P.S	G.S
Final Exam	a1- a2- a3-	b1- b2- b3-	c1- c2- c3- c4	d1- d2
Practical Exam	a1- a2- a3	b1- b2- b3-	c1- c2- c3- c4	
Oral Exam	a1- a2- a3-	b1- b2- b3-	c1,c3	d1-d2-d3-d4

7.2. Assessment schedules

Method	Week(s)
Writing exam	December
Practical exam	December
Oral exam	December

Course specification of postgraduate

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

-Veterinary surgery. D.Knech. R.AIIen. 1987

8.2. Essential books:

-Farm Animal Surgery. Susane Fubini. 1987

8.3. Recommended texts

- Atlas of general small animal surgery. Caywood. Lipowitz. 1989
- Complications in small animal surgery. Alan.J. lipowitz 2015

8.4. Journals, Websites ……..etc

Journals: Veterinary surgery, Veterinary Clinics of North America.

Websites:

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

Program coordinator
Name: Dr. Mohamed Zaki Fathy
Signature..... Date

Head of the Department
Name: Prof.Dr. Gamal Abdel Nasser
Signature..... Date

Course specification

	Topics	week	Intended learning outcomes of course (ILOs)			
	Experimental Surgery		K and U (a)	I.S (b)	P. P.S. (c)	G.T.S (d)
1	-Types of experimental animals	- 1st w- 3th w	1,2,3	1,2,3	1,2,4	1,2,3
2	- Strategy of animal selection for experimental surgery	- 4th w- 7th w	1,2,3	1,3	1,2,3,4	1,2,3,4
3	- Sampling	- 8th w- 11th w	1,2	1,2,3	1,2,3	1,2,3,4
4	- Animal control	- 12th w- 15th w	1,2	1,2,3	1, 3	1,2,3,4
5	- Animal euthanasia	- 16st w- 19th w	1,2,3	1,2,3	1,2,4	1,2,3
6	-Pathological sampling artifacts.	- 20th w- 24th w	1,3	1,4	1,3,4	1,2,4
7	- Some experimental surgery techniques	- 25th w- 36th w	1,2	1,2,3	1,2,3	1,2,3,4

Beni-Suef University
Faculty of Veterinary Medicine

Course specification of postgraduate

1-Basic information

Course Code:	**M-168**	
Course title :	**Anesthesiology**	
Program title:	**Master degree In Veterinary Medical Sciences (Surgery)**	
Contact hours/ week	**Lecture: 1 h / week**	**Practical: 1 h / week**
Approval Date		

2-Professional information

Overall aims of course:

This course aims to:

1. Acquired practical experience about Veterinary Anesthesiology.
2. Learning the practical experience about basic principles of using different anesthetic regime.

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. Recognize types , and uses and indication of different anesthetics.

a.2. Outline the basic principles in veterinary anesthesiology.

a.3. Recall the basic principles of anesthetic techniques and their advantages and drawbacks .

a.4. Describe the relationship between the used anesthetic techniques and materials and surgical interferences.

B-Intellectual skills

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

b.1. Use of anesthesiology to reach the accurate diagnosis in case of musculoskeletal affections.

b.2. Interpret and predict the prognosis and sequllae of anesthetic overdose.

b.3. Score of suitability of using defined anesthetic techniques.

b.4. Identify areas where further researches necessary and be aware of any which would be beyond current ethical codes.

C- Professional and practical skills

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

c.1. Assess experience in performing different anesthetic techniques.

c.2. Selection of the appropriate anesthetic material.

c.3. Using the new technology in practical portion.

c.4.control of anesthetic over dosage.

D- General and transferable skills

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

d.1 Demonstrate information retrieval and library skills

d.2 Demonstrate interpersonal skills and team working ability by the successful completion of collaborative learn assignment and the honors researches projects

Course specification of postgraduate

d.3. present research finding in oral and written from using arrange of appropriate software (e.g., power point , word , excel and data base).
d.4. use all types of communications skills.

4-Topics and contents

Course	Topic	No. of hours	Lectures	Practical
(Lec. 1h./week, Pract. 1h./week)	- Introduction to veterinaryanesthesiology	6	3	3
	- Local analgesia	10	5	5
	- Regional analgesia	14	7	7
	-pre anesthetic medication	18	9	9
	- General anesthesia	8	4	4
	- Intraoperative monitoring	16	8	8

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- Practicalapplication of advanced surgical technique (models, samples of tissues and data show).
5.4- Self learning by preparing essays and presentations (computer researches and library)

7-Student assessment

7.1. Assessments methods:

Method	Matrix alignment of the measured ILOs/ Assessments methods			
	K&U	I.S	P&P.S	G.S
Final Exam	a1- a2- a3-	b1- b2- b3-	c1- c2- c3- c4	d1- d2
Practical Exam	a1- a2- a3	b1- b2- b3-	c1- c2- c3- c4	
Oral Exam	a1- a2- a3-	b1- b2- b3-	c1,c3	d1-d2-d3-d4

7.2. Assessment schedules

Method	Week(s)
Writing exam	December
Practical exam	December
Oral exam	December

7.3. Weight of assessments

Course specification of postgraduate

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

8- List of references

8.1. Notes and books

- Wright's veterinary anesthesia &analgesia. L.W.Hall.1971

8.2. Essential books:

- Veterinary anesthesia. L.W.Hall.& K.W.CIarke 1983

8.3. Recommended texts

- Small animal anesthesia. Roger.C. Warren. 1983
- Lumb& Jones veterinary anesthesia.Lumb& Jones2015

8.4. Journals, Websites ……..etc

Journals: Veterinary anethesiology, Veterinary Clinics of North America.

Websites:

WWW.Science direct
WWW. Pubmed.com
WWW.Scholar google.com
WWW.wellyinterscience

Program coordinator **Head of the Department**
Name: Dr.Mohamed ZakiFathy **Name: Prof.Dr.Gamal Abdel Nasser**
Signature..... Date **Signature..... Date**

Course specification

	Topics	week	Intended learning outcomes of course (ILOs)			
	Anesthesiology		K and U (a)	I.S (b)	P. P.S. (c)	G.T.S (d)
1	- Introduction to veterinary anesthesiology	- 1st w- 3th w	1,2,3	1,2,3	1,2,4	1,2,3
2	- Local analgesia	- 4th w- 8th w	1,2,3	1,3	1,2,3,4	1,2,3,4
3	- Regional analgesia	- 9th w- 15th w	1,2	1,2,3	1,2,3	1,2,3,4
4	- pre anesthetic medication	- 16th w- 24th w	1,2	1,2,3	1, 3	1,2,3,4
5	- General anesthesia	- 25st w- 28th w	1,2,3	1,2,3	1,2,4	1,2,3
6	- Intraoperative monitoring	- 29th w- 36th w	1,3	1,4	1,3,4	1,2,4

Beni-Suef University
Faculty of Veterinary Medicine

Course specification of postgraduate

1-Basic information

Course Code:	**M-169**	
Course title :	**Radiology**	
Program title:	**Master degree In Veterinary Medical Sciences (Surgery)**	
Contact hours/ week	**Lecture: 2 h / week**	**Practical: 2 h / week**
Approval Date		

2-Professional information

Overall aims of course:

This course aims to:

1. Obtain the academic background and practical experience about Veterinary Radiology.
2. Learn the practical experience about basic principles of veterinary radiology and diagnostic imaging and its application in diagnosis of clinical cases. .

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. Recognize causes and diagnosis of surgical affections using imaging modalities.

a.2. Outline the basic principles in dealing with radiographic apparatuses

a.3. Recall the basic principles of anesthetic techniques and materials helping taking image.

a.4. Describe the relationship between the used anesthetic techniques and materials and surgical interferences.

B-Intellectual skills

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

b.1. Discriminate and analysis of clinical and radiographic findings to reach the accurate diagnosis.

b.2. Interpret and predict the prognosis and sequllae of diagnosed surgical affections.

b.3. Score of suitability of using defined imaging techniques.

b.4. identify areas where further researches necessary and be aware of any which would be beyond current ethical codes.

C- Professional and practical skills

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

c.1. Assess experience in clinical radiology and diagnosis of surgical affections

c.2. Perform different radiographic techniques.

c.3. using the new technology in practical portion.

c.4. using of diagnostic imaging in follow up of the treated cases.

D- General and transferable skills

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

d.1 Demonstrate information retrieval and library skills

d.2 Demonstrate interpersonal skills and team working ability by the successful completion of collaborative learn assignment and the honors researches projects

Course specification of postgraduate

d.3. present research finding in oral and written from using arrange of appropriate software (e.g., power point , word , excel and data base).
d.4. use all types of communications skills.

4-Topics and contents

Course	Topic	No. of hours	Lectures	Practical
(Lec. 2h./week, Pract. 2h./week)	- Introduction of radiology & Us.	16	8	8
	- Radiographic protection & Poisoning	44	22	22
	- Radiology of Thoracic Trauma	28	14	14
	- Radiographic Features of Soft Tissue Injuries	20	10	10
	- Radiology of Musculoskeletal Trauma and Emergency Cases	16	8	8

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 application of advanced surgical technique (models, samples of tissues and data show).
5.4- Self learning by preparing essays and presentations (computer researches and library)

7-Student assessment

7.1. Assessments methods:

Method	Matrix alignment of the measured ILOs/ Assessments methods			
	K&U	I.S	P&P.S	G.S
Final Exam	a1- a2- a3	b1- b2- b3	c1- c2	d1- d2
Practical Exam	a1- a2- a3	b1- b2- b3-	c1- c2- c3- c4	
Oral Exam	a1- a2- a3-	b1- b2- b3-	c1,c3	d1-d2-d3-d4

7.2. Assessment schedules

Method	Week(s)
Writing exam	December
Practical exam	December
Oral exam	December

Course specification of postgraduate

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 veterinary radiology (6th Ed.) D.Knech. R.AIIen. 2014

8.2. Essential books:

-Atlas of small animal ultrasonograph Dominique Pennick. 2013

8.3. Recommended texts

- Atlas of small animal CT&MRI. Erick Wisner 2015

8.4. Journals, Websites ……..etc

Journals: Veterinary Radiology& ultrasonography, Veterinary Clinics of North America.

Websites:

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

Program coordinator
Name: Dr. Mohamed Zaki Fathy
Signature..... Date

Head of the Department
Name: Prof.Dr. Gamal Abdel Nasser
Signature..... Date

Course specification

	Topics	week	Intended learning outcomes of course (ILOs)			
	Radiology		K and U (a)	I.S (b)	P. P.S. (c)	G.T.S (d)
1	- Introduction of radiology & us.	- 1st w- 4th w	1,2,3	1,2,3	1,2,4	1,2,3
2	- Radiographic protection & Poisoning	- 5th w- 15th w	1,2,3	1,3	1,2,3,4	1,2,3,4
3	- Radiology of Thoracic Trauma	- 16th w- 22th w	1,2	1,2,3	1,2,3	1,2,3,4
4	- Radiographic Features of Soft Tissue Injuries	- 23th w- 32th w	1,2	1,2,3	1, 3	1,2,3,4
5	- Radiology of musculoskeletal trauma and Emergency Cases	- 33st w- 36th w	1,2,3	1,2,3	1,2,4	1,2,3

Beni-Suef University
Faculty of Veterinary Medicine

Course specification of postgraduate

1-Basic information

Course Code:	**M-162**	
Course title :	**General surgery**	
Program title:	**Master degree In Veterinary Medical Sciences (Surgery)**	
Contact hours/ week	**Lecture: 2 h / week**	**Practical: 3 h / week**
Approval Date		

2-Professional information

Overall aims of course:

This course aims to:

1. Obtaining the academic background and practical experience about General surgery.
2. Introducing the academic background and practical experience about basic principles of surgical interferences and treatment.

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. identify causes , and signs of prominent surgical affections

a.2. Outline the basic principles in dealing with surgical affections

a.3. Recall the basic principles of anesthetic techniques and materials.

a.4. Describe the relationship between the used anesthetic techniques and surgical operation.

B-Intellectual skills

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

b.1. Discriminate and analysis of clinical and laboratory findings to reach the accurate diagnosis.

b.2. Interpret and predict the prognosis and sequllae of general surgical affections.

b.3. Score of suitability of using defined Surgical techniques.

b.4. identify areas where further researches necessary and be aware of any which would be beyond current ethical codes.

C- Professional and practical skills

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

c.1. Assess experience in clinical and laboratory diagnosis of surgical affections

c.2. Perform different surgical techniques.

c.3. using the new technology in practical portion.

c.4.follow up the treated cases and control of postoperative complications.

D- General and transferable skills

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

d.1 Demonstrate information retrieval and library skills

d.2 Demonstrate interpersonal skills and team working ability by the successful completion of collaborative learn assignment and the honors researches projects

d.3. present research finding in oral and written from using arrange of appropriate software (e.g., power point , word , excel and data base).

Course specification of postgraduate

d.4. use all types of communications skills.

4-Topics and contents

Course	Topic	No. of hours	Lectures	Practical
(Lec. 2h./week, Pract. 3h./week)	- Inflammation	20	8	12
	- Necrosis, ulcers and gangrene	15	6	9
	- Burns and scalds	15	6	9
	- Abscess	20	8	12
	- Sinus and fistula	20	8	12
	- Cyst and tumors	20	8	12
	- Bone affections	20	8	12
	- Joint affections	20	8	12
	-Tendons and tendon sheath affections	15	6	9
	- Muscle affections ,Affections of bursa Nerve and blood vessels affections	15	6	9

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 application of advanced surgical technique (models, samples of tissues and data show).
5.4- Self learning by preparing essays and presentations (computer researches and library)

7-Student assessment

7.1. Assessments methods:

Method	Matrix alignment of the measured ILOs/ Assessments methods			
	K&U	I.S	P&P.S	G.S
Final Exam	a1- a2- a3-	b1- b2- b3-	c1- c2- c3- c4	d1- d2
Practical Exam	a1- a2- a3	b1- b2- b3-	c1- c2- c3- c4	
Oral Exam	a1- a2- a3-	b1- b2- b3-	c1,c3	d1-d2-d3-d4

7.2. Assessment schedules

Method	Week(s)

Course specification of postgraduate

Writing exam	December
Practical exam	December
Oral exam	December

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

-Veterinary surgery. D.Knech. R.AIIen. 1987

8.2. Essential books:

-Farm Animal Surgery. Susane Fubini. 1987

8.3. Recommended texts

- Atlas of general small animal surgery. Caywood. Lipowitz. 1989
- Complications in small animal surgery. Alan.J. lipowitz 2015

8.4. Journals, Websites ……..etc

Journals: Veterinary surgery, Veterinary Clinics of North America.

Websites:

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

Program coordinator
Name: Dr. Mohamed Zaki Fathy
Signature..... Date

Head of the Department
Name: Prof.Dr. Gamal Abdel Nasser
Signature..... Date

Course specification

	Topics	week	Intended learning outcomes of course (ILOs)			
	General Surgery		K and U (a)	I.S (b)	P. P.S. (c)	G.T.S (d)
1	- Inflammation	- 1st w- 4th w	1,2,3	1,2,3	1,2,4	1,2,3
2	- Necrosis, ulcers and gangrene	- 5th w- 7th w	1,2,3	1,3	1,2,3,4	1,2,3,4
3	- Burns and scalds	- 8th w- 10th w	1,2	1,2,3	1,2,3	1,2,3,4
4	- Abscess	- 11th w- 14th w	1,2	1,2,3	1, 3	1,2,3,4
5	- Sinus and fistula	- 15st w- 18th w	1,2,3	1,2,3	1,2,4	1,2,3
6	- Cyst and tumors	- 19th w- 22th w	1,3	1,4	1,3,4	1,2,4
7	- Bone affections	- 23th w- 26th w	1,2	1,2,3	1,2,3	1,2,3,4
8	- Joint affections	- 27th w- 30th w	1,2,3	1,2,3	1,2,4	1,2,3
9	-Tendons and tendon sheath affections	- 31th w-33th w	1,2	1,2,3	1,2,3	1,2,3,4
10	- Muscle affections ,Affections of bursa Nerve and blood vessels affections	- 34th w- 36th w	2,3	1,3,4	2,4	1,3,4

Beni-Suef University
Faculty of Veterinary Medicine

Course specification of postgraduate

1-Basic information

Course Code:	**M-164**	
Course title :	**Surgery of eye, ear, nose and throat**	
Program title:	**Master degree In Veterinary Medical Sciences (Surgery)**	
Contact hours/ week	**Lecture: 2 h / week**	**Practical: 2 h / week**
Approval Date		

2-Professional information

Overall aims of course:

This course aims to:

1. Have practical experience about ophthalmic surgery also, surgery of nose and ear.
2. Obtaining the academic background and practical experience about basic principles of surgical interferences and treatment.

- Intended learning outcomes of course (ILOs)

A- Knowledge and understanding:

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

a.1. Recognize causes , and diagnosis of surgical affections of ear, nose and throat.

a.2. Outline the basic principles in dealing with surgical affections and anatomy of the eye

a.3. Recall the basic diagnostic procedure of ocular diseases.

a.4. Describe the relationship between the used anesthetic techniques , tools and surgical interferences in different eye affection.

B-Intellectual skills

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

b.1. Discriminate and analysis of clinical and laboratory findings to reach the accurate diagnosis.

b.2. Interpret and predict the prognosis and sequllae of general surgical affections.

b.3. Score of suitability of using defined Surgical techniques.

b.4. identify areas where further researches necessary and be aware of any which would be beyond current ethical codes.

C- Professional and practical skills

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

c.1. Assess experience in clinical and laboratory diagnosis of surgical affections

c.2. Perform different surgical techniques.

c.3. using the new technology in practical portion.

c.4.follow up the treated cases and control of postoperative complications.

D- General and transferable skills

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

d.1 Demonstrate information retrieval and library skills

d.2 Demonstrate interpersonal skills and team working ability by the successful completion of collaborative learn assignment and the honors researches projects

Course specification of postgraduate

d.3. present research finding in oral and written from using arrange of appropriate software (e.g., power point , word , excel and data base).
d.4. use all types of communications skills.

4-Topics and contents

Course	Topic	No. of hours	Lectures	Practical
(Lec. 2h./week, Pract. 2h./week)	- veterinary ophthalmology	40	20	20
	- Ear affections	28	14	14
	- Nose and throat affections	36	18	18

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 application of advanced surgical technique (models, samples of tissues and data show).
5.4- Self learning by preparing essays and presentations (computer researches and library)

7-Student assessment

7.1. Assessments methods:

Method	Matrix alignment of the measured ILOs/ Assessments methods			
	K&U	I.S	P&P.S	G.S
Final Exam	a1- a2- a3-	b1- b2- b3-	c1- c2- c3- c4	d1- d2
Practical Exam	a1- a2- a3	b1- b2- b3-	c1- c2- c3- c4	
Oral Exam	a1- a2- a3-	b1- b2- b3-	c1,c3	d1-d2-d3-d4

7.2. Assessment schedules

Method	Week(s)
Writing exam	December
Practical exam	December
Oral exam	December

Course specification of postgraduate

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

-Veterinary surgery. D.Knech. R.AIIen. 1987

8.2. Essential books:

-Textbook of veterinary ophthalmology. Gellatt, B. 1987

8.3. Recommended texts

- Atlas of general small animal surgery. Caywood. Lipowitz. 1989
- Complications in small animal surgery. Alan.J. lipowitz 2015

8.4. Journals, Websites ……..etc

Journals: Veterinary surgery, Veterinary Clinics of North America.

Websites:

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

Program coordinator
Name: Dr. Mohamed Zaki Fathy
Signature..... Date

Head of the Department
Name: Prof.Dr. Gamal Abdel Nasser
Signature..... Date

Course specification

	Topics	week	Intended learning outcomes of course (ILOs)			
	Surgery of eye, ear, nose and throat		K and U (a)	I.S (b)	P. P.S. (c)	G.T.S (d)
1	- veterinary ophthalmology	- 1st w- 20th w	1,2,3	1,2,3	1,2,4	1,2,3
2	- Ear and horn affections	- 21th w- 30th w	1,2,3	1,3	1,2,3,4	1,2,3,4
3	- Nose and throat affections	- 31th w- 36th w	1,2	1,2,3	1,2,3	1,2,3,4

Beni-Suef University
Faculty of Veterinary Medicine

Course specification of postgraduate

1-Basic information

Course Code:	**M-163**	
Course title :	**Special surgery**	
Program title:	**Master degree In Veterinary Medical Sciences (Surgery)**	
Contact hours/ week	**Lecture: 2 h / week**	**Practical: 3 h / week**
Approval Date		

2-Professional information

Overall aims of course:

This course aims to:

1. Understanding the academic background and practical experience about Special surgery.
2. Have the academic background and practical experience about basic principles of surgical interferences and treatment of surgical affections of different body systems

Intended learning outcomes of course (ILOs)

A- Knowledge and understanding:

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

a.1. Recognize causes , and diagnosis of surgical affections of different body systems.
a.2. Outline the basic principles in dealing with different surgical affections
a.3. buildup the basic principles of anesthetic techniques and materials.
a.4. Describe the relationship between the used anesthetic techniques and surgical interferences according to the surgical field.

B-Intellectual skills

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

b.1. Discriminate and analysis of clinical and laboratory findings to reach the accurate diagnosis.
b.2. Interpret and predict the prognosis and sequllae of surgical affections.
b.3. Score of suitability of using defined Surgical techniques.
b.4. identify areas where further researches necessary and be aware of any which would be beyond current ethical codes.

C- Professional and practical skills

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

c.1. Assess experience in clinical and laboratory diagnosis of surgical affections
c.2. Perform different surgical tests.
c.3. using the new technology to perform good operation.
c.4. follow up the treated cases and control of postoperative complications.

D- General and transferable skills

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

d.1 Demonstrate information retrieval and library skills
d.2 Demonstrate interpersonal skills and team working ability by the successful completion of collaborative learn assignment and the honors researches projects

Course specification of postgraduate

d.3. present research finding in oral and written from using arrange of appropriate software (e.g., power point , word , excel and data base).
d.4. use all types of communications skills.

4-Topics and contents

Course	Topic	No. of hours	Lectures	Practical
(Lec. 2h./week, Pract. 3h./week)	- Teeth affections	20	8	12
	- Digestive system affections	30	12	18
	- Urinary system affections	25	10	15
	- Genital system affections	25	10	15
	- Hernia and abdominal muscles affections	25	10	15
	- Back and tail affections	15	6	9
	- Udder and teat affections	20	8	12
	- horn affections	20	8	12

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 application of advanced surgical technique (models, samples of tissues and data show).
5.4- Self learning by preparing essays and presentations (computer researches and library)

7-Student assessment

7.1. Assessments methods:

Method	Matrix alignment of the measured ILOs/ Assessments methods			
	K&U	I.S	P&P.S	G.S
Final Exam	a1- a2- a3-	b1- b2- b3-	c1- c2- c3- c4	d1- d2
Practical Exam	a1- a2- a3	b1- b2- b3-	c1- c2- c3- c4	
Oral Exam	a1- a2- a3-	b1- b2- b3-	c1,c3	d1-d2-d3- d4

Course specification of postgraduate

7.2. Assessment schedules

Method	Week(s)
Writing exam	December
Practical exam	December
Oral exam	December

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

-Veterinary surgery. D.Knech. R.AIIen. 1987

8.2. Essential books:

-Farm Animal Surgery. Susane Fubini. 1987

8.3. Recommended texts

- Atlas of general small animal surgery. Caywood. Lipowitz. 1989
- Complications in small animal surgery. Alan.J. lipowitz 2015

8.4. Journals, Websites ……..etc

Journals: Veterinary surgery, Veterinary Clinics of North America.

Websites:

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

Program coordinator
Name: Dr. Mohamed Zaki Fathy
Signature..... Date

Head of the Department
Name: Prof.Dr. Gamal Abdel Nasser
Signature..... Date

Course specification

	Topics	week	Intended learning outcomes of course (ILOs)			
	Special Surgery		K and U (a)	I.S (b)	P. P.S. (c)	G.T.S (d)
1	- Teeth affections	- 1st w- 4th w	1,2,3	1,2,3	1,2,4	1,2,3
2	- Digestive system affections	- 5th w- 10th w	1,2,3	1,3	1,2,3,4	1,2,3,4
3	- Urinary system affections	- 11th w- 15th w	1,2	1,2,3	1,2,3	1,2,3,4
4	- Genital system affections	- 16th w- 20th w	1,2	1,2,3	1, 3	1,2,3,4
5	- Hernia and abdominal muscles affections	- 21st w- 25th w	1,2,3	1,2,3	1,2,4	1,2,3
6	- Back and tail affections	- 26th w- 28th w	1,3	1,4	1,3,4	1,2,4
7	- Udder and t eat affections	- 29th w- 32th w	1,2	1,2,3	1,2,3	1,2,3,4
8	- horn affections	- 33th w- 36th w	1,2,3	1,2,3	1,2,4	1,2,3

Beni-Suef University
Faculty of Veterinary Medicine

Course specification of postgraduate

1-Basic information

Course Code:	**M-165**	
Course title :	**Surgery of digestive system**	
Program title:	**Master degree In Veterinary Medical Sciences (Surgery)**	
Contact hours/ week	**Lecture: 2 h / week**	**Practical: 2 h / week**
Approval Date		

2-Professional information

Overall aims of course:

This course aims to:

1. Understanding the academic background and practical experience about digestive system surgery.
2. Training the academic background and practical experience about basic principles of surgical interferences and treatment of digestive system surgical affections.

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. Recognize causes , and diagnosis of surgical affections of digestive system.

a.2. Outline the basic principles in dealing with mastication biomechanics and tongue anatomy

a.3. Recall the basic principles of anesthetic techniques and materials.

a.4. Recognize The surgical anatomical features of compound stomach.

B-Intellectual skills

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

b.1. Discriminate and analysis of clinical and laboratory findings to reach the accurate diagnosis.

b.2. Interpret and predict the prognosis and sequllae of surgical affections.

b.3. Score of suitability of using defined Surgical techniques.

b.4. identify areas where further researches necessary and be aware of any which would be beyond current ethical codes.

C- Professional and practical skills

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

c.1. Assess experience in clinical and laboratory diagnosis of surgical affections

c.2. Perform different surgical techniques.

c.3. using the new technology in practical portion.

c.4. follow up the treated cases and control of postoperative complications.

D- General and transferable skills

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

d.1 Demonstrate information retrieval and library skills

d.2 Demonstrate interpersonal skills and team working ability by the successful completion of collaborative learn assignment and the honors researches projects

Course specification of postgraduate

d.3. present research finding in oral and written from using arrange of appropriate software (e.g., power point , word , excel and data base).
d.4. use all types of communications skills.

4-Topics and contents

Course	Topic	No. of hours	Lectures	Practical
(Lec. 2h./week, Pract. 2h./week)	Teeth affections	20	10	10
	Digestive system affections	88	44	44
	abdominal wall affections	36	18	18

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 application of advanced surgical technique (models, samples of tissues and data show).
5.4- Self learning by preparing essays and presentations (computer researches and library)

7-Student assessment

7.1. Assessments methods:

Method	Matrix alignment of the measured ILOs/ Assessments methods			
	K&U	I.S	P&P.S	G.S
Final Exam	a1- a2- a3-	b1- b2- b3-	c1- c2- c3- c4	d1- d2
Practical Exam	a1- a2- a3	b1- b2- b3-	c1- c2- c3- c4	
Oral Exam	a1- a2- a3-	b1- b2- b3-	c1,c3	d1-d2-d3-d4

7.2. Assessment schedules

Method	Week(s)
Writing exam	December
Practical exam	December
Oral exam	December

7.3. Weight of assessments

Course specification of postgraduate

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

8- List of references

8.1. Notes and books

- Ruminant Surgery. R.P.S.Tyagi 1987

8.2. Essential books:

-Farm Animal Surgery. Susane Fubini. 1987

8.3. Recommended texts

- Atlas of general small animal surgery. Caywood. Lipowitz. 1989
- Complications in small animal surgery. Alan.J. lipowitz 2015

8.4. Journals, Websites ……..etc

Journals: Veterinary surgery, Veterinary Clinics of North America.

Websites:

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

Program coordinator
Name: Dr. Mohamed Zaki Fathy
Signature..... Date

Head of the Department
Name: Prof.Dr. Gamal Abdel Nasser
Signature..... Date

Course specification

	Topics	week	Intended learning outcomes of course (ILOs)			
	Surgery of digestive system		K and U (a)	I.S (b)	P. P.S. (c)	G.T.S (d)
1	**Teeth affections**	- 1st w- 5th w	1,2,3	1,2,3	1,2,4	1,2,3
2	**Tongue affections**	- 6th w- 27th w	1,2,3	1,3	1,2,3,4	1,2,3,4
3	**Salivary glands affections**	- 28h w- 36th w	1,2	1,2,3	1,2,3	1,2,3,4