



## Course specification

### Course Data

<b>Course Code:</b>	S4-SURG
<b>Course title :</b>	Anesthesiology and General surgery
<b>Academic year:</b>	4 <sup>th</sup> Academic year (2017-2018)
<b>Program title:</b>	B. Sc. Veterinary Medical sciences
<b>Contact hours/ week</b>	4 hours/week, Lect.(2hrs/week), Practical( 2hrs/week)
<b>Approval Date</b>	

### 1-Professional information

This course aims to:

- Provide students with principle information about anesthesiology and general surgery.
- Provide students with principle information about the different anesthetic regimens and drugs of different domestic animals.
- Enable the students to gain skills for diagnosis and treatment different general surgical affection of domestic animals.

### 2- Intended learning outcomes of course (ILOs)

#### **a- Knowledge and understanding:**

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

- a1. Describe the relationship between the used anesthetic techniques and materials.
- a2. Identify the causes, clinical features and diagnosis of the common surgical conditions.
- a3. Mention the basic principles of simple surgical operations.
- a4. Recognize the basic principles of anesthetic techniques and materials.
- a5. Mention the principles and practice of the preoperative preparation and postoperative care including pain management.
- a6. Recognize the common medical errors and malpractice in surgery.
- a7. Outline the basic steps needed for conduction of safe anesthesia.

#### **b-Intellectual skills**

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

- b1. Interpret patients' symptoms and physical signs to reach the accurate diagnosis.
- b2. Interpret and predict the prognosis and Sequelae of surgical affections.
- b3. Score of suitability of using defined anesthetic techniques.
- b4. Recognize different types of anesthetic drugs used for induction of anesthesia in domestic animals.
- b5. Differentiate between different stages of anesthesia.
- b6. Compare between different types of antiseptics and disinfectants.
- b7. Differentiate between different circumscribed surgical swellings.
- b8. Determine different types of joint affections.
- b9. Explain different forms of fractures.

#### **c- Professional and practical skills**



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

- c1. Obtain accurate and complete surgical history.
- c2. Perform different anesthetic techniques.
- c3. Identify surgical instruments and link between these instruments and surgical operations.
- c4. Apply the principles of sterile techniques and infection control guidelines.
- c5. Treat different forms of hemorrhage and arrest it.
- c6. Use different types of fluid therapy for treating dehydration and blood loss.
- c7. Follow up clinical cases post surgically and manipulate any complications.
- c8. Treat and control various types of fractures and stabilize it.

### **d- General and transferable skills**

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

- d1. Appreciate the team working and time management.
- d2. Value the ethics and respect to all individuals inside and outside the surgery room and pay appropriate respect to the animal's clinical cases.
- d3. Recognize the scope and limits of their role as students as well as the necessity to seek and apply collaboration with other colleagues.
- d4. Maintain a professional image concerning behavior, dress and speech.
- d5. Be responsible toward work.
- d6. Communicate effectively with public, colleagues and appropriate authorities.
- d7. Achieve computer skills necessary to make use of medical databases and use the internet for communication.
- d8. Prepare a scientific paper and essay.



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### 3-Topics and contents

Course	Topic	No. of hours	Lectures	Practical
<b>Fourth year-first term</b> <b>Anesthesiology</b> <b>4 hours / weak</b> <b>(Lec. 2hrs/wk - Pract. 2hrs/wk)</b>	Introduction to anesthesia	4	2	2
	-Local anesthesia	4	2	2
	- Regional anesthesia	12	6	6
	-preanesthetics	8	4	4
	- General anesthesia	8	4	4
	- Sepsis and antisepsis	4	2	2
	- hemorrhage	4	2	2
	-Fluid therapy	4	2	2
	-wounds	4	2	2
	<b>Total</b>	<b>52</b>	<b>26</b>	<b>26</b>
<b>Fourth year-second term</b> <b>General surgery</b> <b>4 hours / weak</b> <b>(Lec. 2hrs/wk - Pract. 2hrs/wk)</b>	- Inflammation	4	2	2
	- Necrosis, ulcers and gangrene	4	2	2
	-Burns and scalds	4	2	2
	- Abscess	4	2	2
	- Sinus and fistula	4	2	2
	-Cyst and tumors	4	2	2
	-Bone affections	8	4	4
	-Joint affections	4	2	2
	-Tendons and tendon sheath affections	4	2	2
	-Affections of bursa	4	2	2
	-Muscle affections	4	2	2
	-Nerve and blood vessels affections	4	2	2
		<b>Total</b>	<b>52</b>	<b>26</b>

### 4-Teaching and learning methods

- 4.1- Lectures (brain storming, discussion) using board, data shows
- 4.2- Self learning by preparing essays and presentations (computer researches and faculty library)
- 4.3- Practical sections and summer training.
- 4.4- Classes of cases admitted to the department with active participation of students.
- 4.5 Attendance of operations in surgery hall.

### 5-Teaching and learning methods for the students with disabilities

Office hours and special meeting

### 6-Student assessment

#### 6.1. Assessments methods:



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Method	Matrix alignment of the measured ILOs/ Assessments methods			
	K&U	I.S	P&P.S	G.S
Written Exam	a1-a2-a3-a4-a5-a6-a7	b1-b9	c1	d1
Practical Exam	a4 – a5 – a7	b3 –b6	c1-c2-c3-c4	d1-d2
Oral Exam	a1– a7	b1-b2	c3	d3

### 6.2. Assessment schedules/semester:

Method	Week(s)
Practical exams	14 <sup>th</sup> week
Written exams	14 <sup>th</sup> week
Oral Exam	14 <sup>th</sup> week

### 6.3. Weight of assessments:

Assessment	Weight of assessment
Practical exams	30%
Written exams	50%
Oral Exam	%20
Student activities	-----
	100%

## 7- List of references

### 7.1 Notes and books

Not found.

#### 7.1. Essential books:

- Veterinary anaesthesia&analgesia (5<sup>th</sup> Ed.)      Lumb&Jones      2015
- Small animal surgery (4<sup>th</sup> Ed.)      Theresa Welch Fossum      2012
- Farm Animal Surgery (2<sup>nd</sup> Ed.)      Susan Fubini &Norm Ducharme      2016
- Veterinary anaesthesia (11<sup>th</sup> Ed.).      L.W.Hall. K.W.Clarke and Trim      2014

\*\*These books are available online through Google search ([www.google.com](http://www.google.com)).

#### 7.2. Recommended texts

- Small animal anesthesia.      Roger.C. Warren.      1983
- Atlas of general small animal surgery.      Caywood. Lipowitz.      1989

\*These books are found in the library of faculty of veterinary medicine , Beni-suef university.

#### 7.3. Journals, Websites .....etc

##### Journals:

- The veterinary journal



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- Veterinary surgery
- Veterinary anesthesia and analgesia
- Equine veterinary journal
- Canadian Journal of veterinary medicine
- Livestock production science
- Equine veterinary education.

### **Websites:**

[www.blackwellpublishing.com/journal.asp](http://www.blackwellpublishing.com/journal.asp)  
[www.acvs.org](http://www.acvs.org)  
[www.vetcision.com/staff.html](http://www.vetcision.com/staff.html)  
[www.vsecvet.com/practices/surgery/vets.html](http://www.vsecvet.com/practices/surgery/vets.html)  
[www.ascotvetsurgery.com.au](http://www.ascotvetsurgery.com.au)  
[www.barnhousevets.co.uk](http://www.barnhousevets.co.uk)  
[www.veterinariesurgerycenter.com](http://www.veterinariesurgerycenter.com)  
[www.rcvs.org.uk/VeterinarySurgeons](http://www.rcvs.org.uk/VeterinarySurgeons)  
[www.vetsurgeonsboardwa.au.com](http://www.vetsurgeonsboardwa.au.com)

### **Course Coordinators**

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### **Head of Department**

Prof. Dr/Gamal Abdel-Nasser Ragab



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	Topics	HRS	Knowledge and Understanding							Intellectual Skills									Practical and Professional Skills								General and transferable skills							
			1	2	3	4	5	6	7	1	2	3	4	5	6	7	8	9	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8
	<b>Anesthesiology</b>																																	
1	Introduction to anesthesia		X			X														X							X							
2	Local anesthesia					X				X													X										X	
3	Regional anesthesia					X							X							X									X					
4	preanesthetics								X					X						X						X								
5	General anesthesia						X								X							X					X							
6	Sepsis and antiseptics					X			X													X										X		
7	hemorrhage					X			X														X						X					
8	Fluid therapy						X								X							X				X								
9	wounds																																	
	<b>General surgery</b>																																	
1	Inflammation				X						X										X											X		
2	Necrosis, ulcers and gangrene					X			X														X									X		
3	Burns and scalds						X								X						X						X							
4	Abscess				X				X											X							X							
5	Sinus and fistula				X											X							X							X				
6	Cyst and tumors				X				X											X							X							
7	Bone affections			X													X								X			X						
8	Joint affections				X												X								X				X					
9	Tendons and tendon sheath					X			X											X											X			
10	Affections of bursa				X										X								X				X							
11	Muscle affections					X			X														X								X			
12	Nerve and blood vessels affec				X							X																X						



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