



## Course specification

### Course Data

<b>Course Code:</b>	SUR:4144
<b>Course title :</b>	Anesthesia and General surgery (part I)
<b>Academic year:</b>	4 <sup>th</sup> Academic year
<b>Program title:</b>	B. Sc. Veterinary Medical sciences
<b>Contact hours/ week</b>	3 hours/week, Lect.(1hrs/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 them 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. Describe 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.



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

**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.

### 3-Topics and contents

Course	Topic	No. of hours	Lectures	Practical
<b>Fourth year-first term</b> <b>Anesthesiology</b> <b>4 hours / week</b> <b>(Lec. 1hrs/wk - Pract. 2hrs/wk)</b>	<b>Introduction to anesthesia</b>	3	1	2
	<b>-Local anesthesia</b>	3	1	2
	<b>- Regional anesthesia</b>	9	3	6
	<b>-preanesthetics</b>	6	2	4
	<b>- General anesthesia</b>	6	2	4
	<b>- Sepsis and antisepsis</b>	3	1	2
	<b>- hemorrhage</b>	3	1	2
	<b>-Fluid therapy</b>	3	1	2
	<b>-wounds</b>	3	1	2
	<b>Total</b>	<b>39</b>	<b>13</b>	<b>26</b>



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### 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:

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	b3	c1	d1
Practical Exam	a4 – a5 – a7	b3 –b6	c1-c2-c3-c4	d1-d2
Oral Exam	a2 – a6	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	20%
Student activities	10%
Written exams	50%
Oral Exam	%20
	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



Beni-Suef University  
Faculty of Veterinary Medicine  
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جامعة بني سويف  
كلية الطب البيطري  
قسم الجراحة والتخدير والاشعه

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- |   |                               |      |
|---|-------------------------------|------|
| - 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
- 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.veterinarsurgerycenter.com](http://www.veterinarsurgerycenter.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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