



Course specification

Course Data

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

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



Beni Suef University

Faculty of Veterinary Medicine

Course specification

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.



Course specification

3-Topics and contents

Course	Topic	No. of hours	Lectures	Practical
Fourth year-first term Anesthesiology 4 hours / weak (Lec. 2hrs/wk - Pract. 2hrs/wk)	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
	Total	52	26	26
Fourth year-second term General surgery 4 hours / weak (Lec. 2hrs/wk - Pract. 2hrs/wk)	- 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
		Total	52	26

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:



Course specification

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 th week
Written exams	14 th week
Oral Exam	14 th 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 (5Th Ed.) Lumb&Jones 2015
- Small animal surgery (4th Ed.) Theresa Welch Fossum 2012
- Farm Animal Surgery (2nd Ed.) Susan Fubini &Norm Ducharme 2016
- Veterinary anaesthesia (11th Ed.). L.W.Hall. K.W.Clarke and Trim 2014

**These books are available online through Google search (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, Websitesetc

Journals:

- The veterinary journal



Beni Suef University

Faculty of Veterinary Medicine

Course specification

- 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

www.acvs.org

www.vetcision.com/staff.html

www.vsecvet.com/practices/surgery/vets.html

www.ascotvetsurgery.com.au

www.barnhousevets.co.uk

www.veterinarsurgerycenter.com

www.rcvs.org.uk/VeterinarySurgeons

www.vetsurgeonsboardwa.au.com

Course Coordinators

Dr/ Usama Hagag

Lecturer of Surgery

Faculty of Veterinary Medicine,

Beni-Suef University

Head of Department

Prof. Dr/Gamal Abdel-Nasser Ragab



Beni Suef University
Faculty of Veterinary Medicine

Course specification



Beni Suef University
Faculty of Veterinary Medicine