

Specification for anesthesiology and radiology course 2019/2020

A-Affiliation

1.	Relevant program	Bachelor of Veterinary Medical Science (BVMSc)
2.	Department offering the course	Surgery anesthesiology and radiology

Date of specification approval: ministerial decree No. 1727 on 26/4/2017
(Approved in this template by the department council on 1/10/2019)

B-Basic information

1.	Course title	Anesthesiology and Radiology
2.	Course code	409 (B) II
3.	Level	4 th year
4.	Semester	Second semester
5.	Total hours	5
6.	Lecture hours	2
7.	Practical hours	3

C-Professional Information

1- Course learning objectives

The aim of the course is to provide the students with a basic education about veterinary anesthesiology and to enable them to gain the skills and attitudes required for sedation, analgesia and anesthesia of domestic animals.

2- Intended learning outcomes of the course (ILOs):

a- Knowledge and understanding

After successful completion of the course the students should be able to:

- a1- Identify the basic knowledge about surgical anatomy .
- a2- Mention the basis of local analgesia and its potentiation.
- a3- Understand the basis of regional analgesia and its adverse effects.
- a4- Familiarize of different types of premedication and the general anesthesia and its stages and different types of general anesthetic agent.
- a5- Identify the basis of radiology and ultrasonography and its applications

b- Intellectual skills

After successful completion of the course the students should be able to:

- b1- Decide how to prepare the animal for local , regional or general anesthesia
- b2- Determine the appropriate method of anesthesia suitable to different techniques of operations and the animal species
- b3- Differentiate between the clinical signs of anesthesia and

- over dosage of anesthesia
- b4- Judge the more suitable time of anesthesia for interference in the different surgical conditions.
- b5- Choose the suitable diagnostic methods to reach an accurate diagnosis

c- Professional and practical skills

After successful completion of the course the students should be able to:

- c1- Perform an accurate anesthetic method.
- c2- Prepare of the animal for regional or general anesthesia .
- c3- Practice the correctly positioned the needle in different types of regional analgesia.
- c4- Decide the suitable method of anesthesia.
- c5- Prepare and interpret a radiographic and ultrasonographic image

d- General and transferable skills

After successful completion of the course the students should have the following skills

- d1- Solve problems associated with pet animal diseases.
- d2- Communicate with other colleagues for reaching diagnosis.
- d3- Cooperate with other veterinary hospitals, clinics and units in the field of pet animal practice.
- d4- Work in a team during group assignments

3- Course contribution in the program ILOs:

Course ILOS	Program ILOS
A Knowledge and understanding	a ¹⁰
B Intellectual skills	b ⁸
C Professional and practical skills	c ^{3,9,10}
D General and transferable skills	d ^{1,2,3,5}

3.1- Course contents:

Topic	Lecture hours	Practical hours
Basis and terminology	2	3
Local analgesia	2	6
Regional analgesia about the head	2	5
Regional analgesia about the limb	2	5
Paravertebral analgesia	2	3
Epidural analgesia	2	3
Narcosis	2	-
Pre-medications	2	-
General anesthesia	3	6
Principles of diagnostic imaging	2	3
Physics of x-ray	1	3
Introduction to the radiographic interpretation	4	5

Basis and clinical application of Ultrasonography	4	3
Total	30	45

The midterm and practical exams are included during the semester

3.2- ILOs matrix:

Topic	A) Knowledge and understanding	B) Intellectual skills	C) Professional and practical skills	D) General and transferable skills
Basis and terminology	a1-a2	b1-b4	c1- c4	d1-d2-d3-d4
Local analgesia	a1-a2	b1-b4	c1- c4	d1-d2-d3-d4
Regional analgesia about the head	a1- a3	b1-b4	c1- c4	d1-d2-d3-d4
Regional analgesia about the limb	a1- a3	b1-b4	c1- c4	d1-d2-d3-d4
Paravertebral analgesia	a1- a3	b1-b4	c2-c3-c4	d1-d2-d3-d4
Epidural analgesia	a1- a3	b1-b4	c2-c3-c4	d1-d2-d3-d4
Narcosis	a1- a4	b2- b4	c2-c3-c4	d1-d2-d3-d4
Pre-medications	a1- a4	b2- b4	c2-c3-c4	d1-d2-d3-d4
General anesthesia	a1- a4	b2- b4	c2-c3-c4	d1-d2-d3-d4
Principles of diagnostic imaging	a1- a5	b1-b5	c1-c5	d1-d2-d3-d4
Physics of x-ray	a1-a2	b1-b4	c1- c4	d1-d2-d3-d4
Introduction to the radiographic interpretation	a1-a2	b1-b4	c1- c4	d1-d2-d3-d4
Basis and clinical application of Ultrasonography	a1- a3	b1-b4	c1- c4	d1-d2-d3-d4

4- Teaching, learning and assessment methods:

ILOs	Teaching and Learning methods							assessment method				
	L	P&M	D	P	Ps	Bs	Ft	semester	midterm	oral	practical	written
a1	X	X	X	0		X	0	X	X	X	0	X

	a2	x	x	x	0		x	0	x	x	x	0	x
	a3	x	x	x	0		x	0	x	x	x	0	x
	a4	x	x	x	0		x	0	x	x	x	0	x
	a5	x	x	x	0		x	0	x	x	x	0	x
Intellectual skills	b1	x	x	x	0	x	x	x	x	x	x	0	x
	b2	x	x	x	0	x	x	x	x	x	x	0	x
	b3	x	x	x	0	x	x	x	x	x	x	0	x
	b4	x	x	x	0	x	x	x	x	x	x	0	x
	b5	x	x	x	0	x	x	x	x	x	x	0	x
Professional and practical skills	c1	0	x	x	x	x	0	x	x	0	x	x	0
	c2	0	x	x	x	x	0	x	x	0	x	x	0
	c3	0	x	x	x	x	0	x	x	0	x	x	0
	c4	0	x	x	x	x	0	x	x	0	x	x	0
	c5	0	x	x	x	x	0	x	x	0	x	x	0
General skills	d1	x	0	x		x	0	x	x	0	x	x	x
	d2	x	0	x	x	0	0	x	x	0	x	0	0
	d3	0	0	x	x	0	0	x	x	0	x	0	0
	d4	0	x	x	0	0	0	x	x	0	x	0	0

L :Lecture, P&M: Presentations & Movies, D&S: Discussions & Seminars PT: Practical, Ps: Problem solving, Bs: Brain storming Ft: field trip

5- Assessment timing and grading:

Assessment method	timing	grade
Mid-term exam and semester work	6 th week	15
Practical exam	14 th week	20
oral exam	End of semester	15
Written exam	End of semester	50
total		100

6- List of references

6.1- Course notes:

A concise guide of Veterinary Anesthesiology **edited by staff members**

6.2- Essential books (text books)

- Teresa F. Sonsthagen (2011) Veterinary instruments and equipment: a pocket guide.
- Pramod Kumar (2009) textbook of veterinary anaesthesia.
- Lisa M. Lavin (2007) Radiography in Veterinary Technology
- Amresh Kumar k.(2005) Veterinary Surgical Techniques

6.3- Recommended books

- Course note.
- Lisa M. Lavin (2007) Radiography in Veterinary Technology.
- Kirby I. Bland (2002) the Practice of General Surgery.

6.4- Periodicals, Web sites, . . . etc

- Journal of Veterinary Surgery.

- American Journal of Veterinary Medical Association.
- American Journal of Veterinary Research
- Veterinary Record
- www.ekb.eg

7- Facilities required for teaching and learning

- Equipped teaching hall.
- Equipped surgical laboratory.
- Equipped surgery room.
- Radiation unit
- Faculty teaching farm
- Faculty teaching hospital
- Training unit

Course coordinator: Prof. Dr ADEL ELAQRAA.

Head of department Prof. Dr ADEL ELAQRAA

Signature

Date...1/10/2019

