



Course specification (2018-2019)

Course Data

Course Code:	SUR: 5161
Course title :	Special surgery and radiology
Academic year:	5 th Academic year part I
Program title:	B. Sc. Veterinary Medical sciences
Contact hours/ week	4 hours/week, Lect.(2hrs/week), Practical(2hrs/week)
Approval Date	

1-Professional information

Overall aims of course:

This series of lectures and practical classes is designed to provide the clinical knowledge and practical skills in special veterinary surgery and veterinary radiology to provide the student with knowledge and skills that enables him/her to identify, analyze, manage and/or refer clinical surgical problems in order to provide efficient, cost effective and humane patient care.

This course aims to:

1. Introducing the academic background and practical experience about Special surgery.
2. Application of the basic principles learned in general surgery, Radiology, diagnosis and therapy of surgical affections.

2- Intended learning outcomes of course (ILOs)

a- Knowledge and understanding:

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

- 2.1.1. Recall the basic principles of anesthetic techniques and materials.
- 2.1.2. Recall the basic steps needed for conduction of safe anesthesia.
- 2.1.3. Mention the basic principles of surgical interference.
- 2.1.4. Describe the causes, clinical features and diagnosis of different surgical conditions.
- 2.1.5. Mention the principles and practice of the preoperative preparation and postoperative care including pain management.
- 2.1.6. Recognize the common medical errors and malpractice in surgery.
- 2.1.7. Describe the surgical anatomy and physiology of the surgically important regions, organs and structures of the body.

b-Intellectual skills

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

- 2.2.1. Interpret patients' symptoms and physical signs to reach an accurate diagnosis.
- 2.2.2. Interpret and predict the prognosis and Sequelae of surgical affections.
- 2.2.3. Prioritize the appropriate investigations needed for patients with common and emergency surgical conditions.
- 2.2.4. Integrate the results of clinical and investigatory findings to formulate appropriate cost



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effective management plan for common surgical problems.

c-Professional and practical skills

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

- 2.3.1. Obtain accurate and complete surgical history.
- 2.3.2. Examine the patient systematically as well as with proper note keeping
- 2.3.3. Identify normal surgical and topographic anatomy of different parts and systems of the body.
- 2.3.3. Identify the most significant clinical manifestations of common and emergency surgeries.
- 2.3.4. Recognize various radiological features of surgical diseases.

d-General and transferable skills

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

- 2.4.1. Communicate
- 2.4.2. Utilize anesthesia as a necessary aiding tool with surgical interferences.
- 2.4.3. Able to diagnose and define surgical problems.

3-Topics and contents

Course	Topic	No. of hours	Lectures	Practical
Fifth year-first term Lameness	- Introduction to lameness	2	1	1
	- Fore limb affections	8	4	4
	- Hind limb affections	8	4	4
	- Hoof affections	14	7	7
	- Claw affections	8	4	4
	-Introduction to radiology.	4	2	2
	- radiography	4	2	2
	- Ultrasonography.	4	2	2
	Total	52	26	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.



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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
Final Exam	2.1.3-2.1.4-2.1.5- 2.1.6-2.1.7	2.2.3		2.4.1
Practical Exam			2.3.1-2.3.2-2.3.3- 2.3.4	2.4.1-2.4.2
Oral Exam		2.1.1-2.1.2- 2.2.1-2.2.2-2.2.4		2.4.3

6.2. Assessment schedules/semester:

Method	Week(s)
Practical exams	14 th week
Final exams	14 th week
Oral Exam	14 th week
Student activity	Along the course

6.3. Weight of assessments:

Assessment	Weight of assessment
Practical exams	30%
Student activity	10%
Final exams	50%
Oral Exam	%20
	100%

7- List of references

7.1. Essential books:

- Dollar's veterinary surgery. J.J. O'Connor. 1980
- Wright's veterinary anesthesia analgesia. L.W.Hall. 1971
- Radiology in veterinary orthopedics.Joe. P. Morgan. 1972
- Veterinary anaesthesia. L.W.Hall. K.W.Clarke 1983

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

7.2. Recommended texts



Beni-Suef University
Faculty of Veterinary Medicine
Surg. Rad. & Aesthesiol. Depart.

جامعة بني سويف
كلية الطب البيطري
قسم الجراحة و التخدير و الاشعه

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- An atlas of veterinary Surgery. John. Hichman. 1980
- Techniques in large animal surgery. A.Simon. C. Wayne. 1982
- Current techniques in small animal surgery.M.Josseph. 1983
- Veterinary anaesthesia. L.W.Hall. K.W.Clarke 1983
- Small animal anesthesia. Roger.C. Warren. 1983
- Small animal radiography. Lawrence. J.KIenine. 1983
- Veterinary trauma & Critical care. Ira.M. Zaslow. 1984
- Color atlas of large animal surgery. A.W. KersJes. 1985
- Small animal surgery Iram Courleg. 1985
- Veterinary surgery. D.Knech. R.Allen. 1987
- Veterinary radiography. S.W. Douglas. 1987
- Ruminant urogenital Surgery. C.F.B. Hofmeyr. 1987
- Atlas of general small animal surgery.Caywood. Lipowitz 1989
- Veterinary emergency & critical Care medicine. Murtaugh. Kaplan. 1992
- Disease mechanisms in small Animal. M.Joseph. Bojrab. 1993
- Small animal neurology. Simon. J. Wheeler 1996
- Surgery. Bruce.E. jarreil. 1996
- Complications in small animal surgery.Alan.J. lipowitz. 1996
- Lameness in cattle. Paul.R. Creenough. 1997
- Small animal surgery. Laura.Pardi Duprey. 1997
- Equine surgery. C. Wayne James.T. 1998
- Veterinary diagnostic radiology. Donald. E. Thrall. 1998

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

7.3. Journals, Websitesetc

Journals:

- Indian Journal of veterinary surgery.
- American Journal of veterinary research.
- Veterinary record.
- Veterinary Surgery.
- Veterinary anesthesia and analgesia.

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.veterinarysurgerycenter.com
- www.rcvs.org.uk/VeterinarySurgeons



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- www.leimedical.com
- www.vasg.org
- www.acvr.org/general/activities/journal/index.html
- www.cvmb.colostate.edu/cvmb/radiology.pdf
- www.vasg.org
- www.vetmed.wsu.edu/ClientED/anesthesia.asp
- www.acvr.org
- www.vet.utk.edu/radiology
- www.acvr.org/general/activities/journal/index.html
- www.cvmb.colostate.edu/cvmb/radiology.pdf

Course Coordinator

Dr. Usama Hagag
Lecturer of Surgery
Faculty of Veterinary Medicine,
Beni-Suef University

Head of Department

Prof. Dr/Gamal Abdel-Nasser Ragab



Course specification

	Topics	Hours	Knowledge and Understanding							Intellectual Skills							Practical and Professional Skills					Practical and Professional Skills						
			1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	4	5	1	2	3	4	5	6	7
	lameness																											
1	Introduction to lameness		x				x			x							x											x
2	Fore limb affections							x					x						x								x	
3	Hind limb affections					x					x									x							x	
4	Hoof affections							x						x				x						x				
5	Claw affections								x				x				x					x						
6	Introduction to radiology.		x								x										x					x		
7	radiography		x								x										x					x		
8	Ultrasonography.			x								x									x			x				



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Faculty of Veterinary Medicine