



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

جامعة بني سويف
كلية الطب البيطري
قسم الجراحة و التخدير والأشعة

Course specification (2017-2018)

Course Data

Course Code:	S5-SURG
Course title :	Lameness, special surgery and radiology
Academic year:	5 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 the students with principle information about the diagnostic imaging and special surgery.
- Provide them with the principle information about equine lameness and claw affections.
- Enable the students to gain skills for diagnosis and treatment different surgical affection of the 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:

- Familiarize the basic principles of veterinary radiology.
- Comprehend the basics of veterinary ultrasonography.
- Mention the basic principles of veterinary ophthalmology.
- Describe the causes, clinical features and diagnosis of different surgical conditions.
- Mention the principles and practice of the preoperative preparation and postoperative care including pain management.
- Recognize the common medical errors and malpractice in surgery.
- 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:

- Interpret patients' symptoms and physical signs to reach an accurate diagnosis.
- Interpret and predict the prognosis and Sequelae of surgical affections.
- Prioritize the appropriate investigations needed for patients with common and emergency surgical conditions.
- Integrate the results of clinical and investigatory findings to formulate appropriate cost effective management plan for common surgical problems.
- Differentiate between different hoof affections and musculoskeletal disorders having same



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signs.

b6. Compare between different types of ocular (conjunctiva & sclera).

b7. Diagnose various teeth affections.

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. Examine the patient systematically as well as with proper note keeping

c3. Identify normal surgical and topographic anatomy of different parts and systems of the body.

c4. Identify the most significant clinical manifestations of common and emergency surgeries.

c5. 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:

d1. Appreciate the team working and time management.

d2. Value the ethics and respect to all individuals inside and outside the dissecting room and pay appropriate respect to the animal's cadavers.

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.



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3-Topics and contents

Course	Topic	No. of hours	Lectures	Practical
Fifth year-first term Lameness	- Introduction to lameness	4	2	2
	- Fore limb affections	8	4	4
	- Hind limb affections	8	4	4
	- Hoof affections	12	6	6
	- Claw affections	8	4	4
	-Introduction to radiology.	4	2	2
	- radiography	4	2	2
	- Ultrasonography.	4	2	2
	Total	52	26	26
Fifth year-second term Special surgery	-Eye affections	12	6	6
	-Cranial Sinuses affections	4	2	2
	-Ear and horn affections, back and tail affections	4	2	2
	-Teeth affections	4	2	2
	-Digestive system affections	12	6	6
	-Urinary system affections Including new surgical techniques recorded for surgery department, Fac. Vet. Med., Beni-Suef University	4	2	2
	-Genital system affections	4	2	2
	-Hernia and abdominal muscles affections	4	2	2
	-Udder and teat affections	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
Written Exam	a3-a4-a5-a6-a7	b1-b8	c4 – c5	d1
Practical Exam	a1 – a2 – a4	b8	c1-c2-c3-c4	d1-d2
Oral Exam	a1 – a2 – a3	b1- b2-b4	c3 – c4 – c5	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. Essential books:

- Adams and Stashak's Lameness in Horses (6th Ed) Baxter 2011
- Textbook of Veterinary Diagnostic Radiology (6th Ed.) Donald E. Thrall. 2013
- Slatter's Fundamentals of Veterinary Ophthalmology (5th Ed.) 2013
- Small animal surgery (4th Ed.) Theresa Welch Fossum 2012
- Farm Animal Surgery (2nd Ed.) Susan Fubini & Norm Ducharme 2016

***These books are available online through Google search (www.google.com).

7.2. Recommended texts

- An atlas of veterinary Surgery. John. Hichman. 1980



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- Techniques in large animal surgery. A.Simon. C. Wayne. 1982
 - Current techniques in small animal surgery.M.Jossep. 1983
 - Veterinary anaesthesia. L.W.Hall. K.W.Clarke 1983
 - Small animal anesthesia. Roger.C. Warren. 1983
 - Small animal radiography. Lawrence. J.Klenine. 1983
 - Veterinary trauma & Critical care. Ira.M. Zaslou. 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.veterinarsurgerycenter.com
- www.rcvs.org.uk/VeterinarySurgeons
- www.leimedical.com



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- www.vasg.org
- www.acvr.org/general/activities/journal/index.html
- www.cvmbs.colostate.edu/cvmbs/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.cvmbs.colostate.edu/cvmbs/radiology.pdf

Course Coordinator

Dr. Usama Hagag
Lecturer of surgery
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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						
			١	٢	٣	٤	٥	٦	٧	١	٢	٣	٤	٥	٦	٧	١	٢	٣	٤	٥	١	٢	٣	٤	٥	٦	٧
	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				
	Special surgery																											
1	Eye affections				x										x					x						x		
2	Cranial Sinuses affections							x					x					x								x		
3	Ear and horn affections								x		x								x						x			
4	Teeth affections							x							x				x				x					
5	Digestive system affections						x			x											x			x				
6	Urinary system affections								x			x							x								x	
7	Genital system affections					x						x					x								x			
8	Hernia and abdominal wall							x					x							x		x						
9	Udder and teat affections								x		x							x								x		



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