

COURSE SPECIFICATION

(2016 / 2017)

1- Basic Information:

Course title: Special Surgery & lameness (A, B)

Academic Year: 5th year of B. V. Sc. Programme

Total teaching hours: 120 hrs

- Lectures: **60 hrs**

- Practical (Clinical/small group sessions): **60 hrs**

2- OVERALL AIMS OF THE COURSE:

At the end of this course, students should gain the basic concepts and the essential practical skills in the field of systemic surgery, Ophthalmology and lameness.

3- INTENDED LEARNING OUTCOMES (I. L. Os.):

3-A: KNOWLEDGE and UNDERSTANDING:

By the end of the course, students should be able to:

- A1.** Study the surgical anatomy of the eye.
- A2.** Review the common surgical affections of the eye.
- A3.** Characterize the diagnostic procedures and therapeutics for ocular diseases.
- A4.** Recognize the surgical anatomical features of different body systems.
- A5.** List the common clinical signs of each special surgical affection.
- A6.** Outline the steps of operative techniques used for correcting a surgical problems.
- A7.** Recognize the clinical signs for lesions causing lameness in fore limbs and hind limbs.
- A8.** Describe the line of treatment for different surgical affections of fore and hind limbs.
- A9.** Express the post-operative care and preventive measures.

3-B: INTELLECTUAL SKILLS:

By the end of the course, students should be able to:

- B1.** Analyze the history and clinical findings for diagnosis and differential diagnosis of special surgical problems.
- B2.** Investigate ophthalmic, lameness and different body systems surgical problems.
- B3.** Select the most suitable surgical technique and the associated complications.
- B4.** Figure out the prognosis of the surgical affections. Interpret the most important symptoms and signs of disease in animals.

3- C: PRACTICAL AND PROFESSIONAL SKILLS:

By the end of the course, students should be able to:

- C1.** Handle the special surgical instrumentation and therapeutic shoeing.
- C2.** Carry out preparations for surgical patient.
- C3.** Practice some diagnostic procedures and operative techniques.
- C4.** Solve some post-operative complications.
- C5.** Apply some surgical interventions in small and large animal cadavers.
- C6.** Manage the post- operative care for each surgical intervention.
- C7.** Design preventive measures to avoid surgical complications.

3- D: GENERAL AND TRANSFERABLE SKILLS:

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

- D1.** Improve the communication skills with colleagues and teachers.
- D2.** Construct a poster.
- D3.** Manage time efficiently.

4- COURSE CONTENTS:

4.A:- First semester topics :-

Topic	No. of hours/ topic	
	Lectures	Practical
Eye lid affections. Affections of the conjunctiva Affections of the lacremal apparatus	2	-
Affections of the cornea. Affections of the sclera	2	-
Affections of the anterior chamber.	2	-
Affections of the eye ball Glaucoma.	2	-
Ear and horn	3	-
Respiratory system	3	-
Digestive system	6	



Topic	No. of hours/ topic	
	Lectures	Practical
Genital system (Male and Female)	4	-
Urinary system	4	-
Mammary gland (udder)	2	
Practical		
Dissection of the eye (equine)	-	2
Examination of the eye	-	2
Ocular therapeutics.	-	2
Operation of the eye: Techniques for Entropion and Ectropion correction.	-	2
Extirpation of the eye ball	-	2
Gastrostomy & Splenectomy	-	2
Rumenotomy and abomasal displacement	-	4
Conventional and prosthetic hernioraphy.	-	2
Tracheostomy & Trephining	-	2
Castration in equine and pets	-	4
Cystotomy & Perineal urethrotomy (pets & ruminants)	-	4
Ovariohysterectomy	-	2
Total hours /semester	30	30
Total hours / course	60	

4.B:- Second semester topics:-



Topic	No. of hours	
	Lectures	practical
Introduction to lameness.	2	-
Conformation of the equine limbs.		
Diagnosis of lameness.	2	-
Affections of the fore limb.	8	-
Affections of the hind limb.	8	-
Affections of hoof.	6	-
Affections of the claw.	4	-
Practical		
Examination of equine limbs	-	2
Instrumentation for special surgical procedures.	-	2
Technique of Palmer and planter neurectomy	-	4
Technique of Posterior tibial neurectomy	-	4
Technique of Medial patellar desmotomy	-	4
Technique of Cunean tenectomy	-	4
Shoeing for soundness	-	4
Claw amputation	-	4
Total hours /semester	30	30
Total hours / course	60	

5- TEACHING & LEARNING METHODS:

*Lectures

- (using data show, white board, overhead projector and brain storming)

*Practical and small group sessions:

- 1: Practical training.
- (Practical demonstrations, practice of skills, and discussions)
- Outpatients clinic in faculty hospital

* Site visits

- Field visits for practical application

* Self learning

- Computer researches and faculty library visits to prepare essays and presentations.



- Library researches.
- Internet researches.
- Discussion in the researches.
- Preparation of posters
- Preparation of scientific reports.

*** Audiovisual**

- Video show.

6. METHODS FOR STUDENTS With limited capabilities:-

- No disabled students until now, but if present the methods are:-
 - Activation of office hours.
 - Discussion with them during practical session.

7. STUDENT ASSESSMENT:

7.1. Assessments methods

Method	Matrix alignment of the measured ILOs/ Assessments methods			
	K&U (a)	I.S (b)	P&P.S (c)	G.S (d)
Student activities and periodical exams	1&7	1,2, 3	-	1-3
		2,3,4		
Practical exam	-	-	1, 2, 3, 4, 5, 6 & 7	1
Final-Term exam	1, 2, 3, 4, 5, 6, 7, 8, 9	1, 2, 3 & 4	-	3
Oral exam	1, 2, 4, 5, 7, 8	1, 2, 3 & 4	-	-

7.2- Assessment schedules/semester

Assessments methods	Time of Assessments
Student activities	Along the semester
periodical exams	6 th Week each term
Practical exam	At the end of each term
Final-Term exam (written exam)	At the end of each term
Oral exam	At the end of each term

7.3- Weight of assessments



Assessments	1 st term	2 nd term	Total marks
Student activities and periodical examination	5	5	10
Written examination	25	25	50
Practical examination	10	10	20
Oral examination	10	10	20
Total	50	50	100

8. LEARNING AND REFERENCE MATERIALS:

8-1: BASIC MATERIALS:

- **Department notes:** Department notes for special surgery, lameness, practical special surgery and practical lameness diagnosis and surgery.

8-2: Recmended books:

- Textbook of Small Animal Surgery: 2-Volume Set by Douglas Slatter BVSc PhD MS FRCVS (Hardcover - Dec 17, 2002)
- Manual of Small Animal Surgery by Theresa Welch Fossum DVM MS PhD Dipl ACVS (Paperback - Jan 15, 2000)
- Atlas of Small Animal Surgery by William D. Dehoff (Hardcover - Aug 30, 2009)
- Techniques in Large Animal Surgery, Third Edition by Dean Hendrickson (Hardcover - Oct 19, 2007)
- Atlas of Large Animal Surgery by A. W. Kersjes and I. Nemeth (Hardcover - Jun 1985)
- Farm Animal Surgery by Susan L. Fubini DVM and Norm Ducharme DVM (Hardcover - Jan 15, 2004)
- Handbook of Small Animal Ophthalmic Surgery 2: Corneal and Intraocular Procedures by Kirk N. Gelatt and J. P. Gelatt (Hardcover - Jul 15, 1995)
- Essentials and Interactive Atlas of Veterinary Ophthalmology (Essentials of Veterinary Ophthalmology) by Kirk N. Gelatt (Paperback - April 18, 2008)

- Essentials and Interactive Atlas of Veterinary Ophthalmology (Essentials of Veterinary Ophthalmology) by Kirk N. Gelatt (Paperback - April 18, 2008)
- Veterinary Ophthalmology (Kirk N. Gelatt, 4th ed. **2013**).
- Maggs DJ, Miller P, Ofri R. Slatter's fundamentals of veterinary ophthalmology: Elsevier Health Sciences; **2012**.
- Yorio T, Clark A, Wax MB. Ocular therapeutics: eye on new discoveries: Academic Press; **2011**.
- Clinical companion small animal dentistry, Saunders Elsevier, **2013**.
- Ruminant Surgery (R. P. S. Tyagi, **2006**).
- Current Techniques in Small Animal Surgery (Bojrab, M. Joseph, 4th ed, **1998**).
- Practical guide to lameness in horses (Ted S. Stashak DVM, **1996**).
- Equine Surgery, 4th Edition (Jorg A. Auer, Dr Med Vet, MS and John A. Stick, DVM, **2012**).
- Mechanisms of Disease in Small Animal Surgery (Bojrab, **2010**).

8.3: web sites and jouranlsand so on

- WWW.PubMed.com
- Intrnational of veterinary information services (IVIS)
- www.Vet.net.com

Matrix alignment of the course topics and ILOs

First Semester

Topic	No. of hours /week		Total hours /semester	Hours for lect.	Hours for pract.	ILOs			
	Lect.	Pract.				K&U (a)	I.S (b)	P.P.S (c)	G.T.S (d)
Eye lid affections. Disease of the conjunctiva Affections of the lacrimal apparatus	2	-	2	2	-	1,2	1,2,3,4	-	1-3
Affections of the cornea. Affections of the sclera	2	-	2	2	-	1,2	1,2,3,4	-	1-3



Topic	No. of hours /week		Total hours /semester	Hours for lect.	Hours for pract.	ILOs			
	Lect.	Pract.				K&U (a)	I.S (b)	P.P.S (c)	G.T.S (d)
Affections of the anterior chamber. Affections of the anterior Uvea & lens. Affections of the vitreous body.	2	-	2	2	-	1,2	1,2,3,4	-	1-3
Affections of the retina. Affections of the eye ball Glaucoma.	2	-	2	2	-	1,2	1,2,3,4	-	1-3
Affections of teeth and tongue	2	-	2	2	-	4,5,6	2,3,4	-	1-3
Esophagus, simple stomach affections	2	-	2	2	-	4,5,6	2,3,4	-	1-3
Compound stomach affections.	2	-	2	2	-	4,5,6	2,3,4	-	1-3
Intestinal, rectal and anal affections.	2	-	2	2	-	4,5,6	2,3,4	-	1-3
Integumentary system (Ear, tail, Horn and udder)	3	-	6	6	-	4,5,6	2,3,4	-	1-3
Respiratory system	3	-	2	2	-	4,5,6	2,3,4		1-3
genital system	4	-	4	4	-	4,5,6	2,3,4		1-3
Urinary system	4	-	6	6	-	4,5,6	2,3,4		1-3
Aseptic technique and instrumentation	-	3	3	-	3			1	1-3
Dissection of the eye (equine)	-	3	3	-	3	-	-	-	1-3



Topic	No. of hours /week		Total hours /semester	Hours for lect.	Hours for pract.	ILOs			
	Lect.	Pract.				K&U (a)	I.S (b)	P.P.S (c)	G.T.S (d)
Examination of the eye	-	3	3	-	3	3	-	2,3,4	1-3
Ocular therapeutics.	-	3	3	-	3	3	-	-	1-3
Operation of the eye: Techniques for Entropion and Ectropion correction.	-	3	3	-	3	-	-	2,3,4	1-3
Extirpation of the eye ball	-	3	6	-	6	-	-	2,3,4	1-3
Laparotomy (celiotomy)	-	3	3	-	3			5	1-3
Gastrotomy, splenectomy	-	3	3	-	3			2,3,4	1-3
Rumenotomy	-	3	3	-	3			2,3,4	1-3
Conventional and prosthetic herniorraphy.	-	3	3	-	3			2,3,4	1-3
Docking and ear trimming	-	3	3	-	3			2,3,4,5, 6 & 7	1-3
Mastectomy	-	3	3	-	3			2,3,4,5, 6 & 7	1-3
Terachestomy Trephining	-	3	6	-	6			2,3,4,5, 6 & 7	1-3
Castration in equine, ruminants and pets	-	3	6	-	6			2,3,4,5, 6 & 7	1-3
Cystotomy Perineal urethretomy (pets & ruminants)	-	3	6	-	6			2,3,4,5, 6 & 7	1-3
Ovariohysterctomy	-	3	6		6			2,3,4,5, 6 & 7	1-3
Total			60	30	30	-			

Second Semester

Topic	No. of hours /week		Total hours /semester	Hours for lect.	Hours for pract.	ILOs				T&L. methods				
	Lect.	Pract.				K&U (a)	I.S (b)	P.P.S (c)	G.T. S (d)	Lect.	Pract.	Self& active leaning	Audio-visual	Case study
Introduction to lameness.	2	-	2	2	-	7	-	-	1-3	√		√		
Anatomy of the equine limb.														
Diagnosis of lameness.	2	-	2	2	-	8	1	-	1-3	√		√		
Diagnosis of foot lameness														
Conformation of the fore limb.	2	-	4	4	-	7,8,9	1,2,3,4	-	1-3	√		√		
Affections of the fore limb.														
Conformation of the hind limb.	2	-	4	4	-	7,8,9,10	1,2,3,4	-	1-3	√		√		
Affections of the hind limb.														
Hoof affections.	2	-	4	4	-	8,9,10	1,2,3,4	-	1-3	√		√		
Affections of the claw.	2	-	4	4	-	8,9,10	1,2,3,4	-	1-3	√		√		
Anatomy of the equine fore limb.														
Anatomy of the equine hind limb.	-	3	3	-	3	7	-	-	1-3		√			√
Anatomy of the hoof and claw.														
Instrumentation for special surgical procedures.	-	3	3	-	3	-	-	1	1-3		√			√
Technique of Palmar and planter neurectomy	-	3	6	-	6	--	-	2,3,4	1-3		√			√



Topic	No. of hours /week		Total hours /semester	Hours for lect.	Hours for pract.	ILOs				T&L. methods				
	Lect.	Pract.				K&U (a)	I.S (b)	P.P.S (c)	G.T. S (d)	Lect.	Pract.	Self & active leaning	Audio-visual	Case study
Technique of Posterior tibial neurectomy	-	3	3	-	3	-	-	2,3,4	1-3		√			√
Technique of Medial patellar desmotomy	-	3	3	-	3	-	-	2,3,4	1-3		√			√
Technique of Cunean tenectomy	-	3	3	-	3	--	-	2,3,4	1-3		√			√
Shoeing for soundness	-	3	3	-	3	-	-	1	1-3		√			√
Claw amputation	-	3	3	-	3	-	-	2,3,4	1-3		√			√
Total			60	30	30	-								√

Course content ILOs Matre

Assessment ILOs Matrix:

Methods	I.L.O.S Evaluation				Marks allocated
	Knowledge	Intellectual	Practical	general	
Written examination	A1-A2- A3-A4-	B1-B2-B3		D6	25
Oral examination	A1-A2- A3-A4-	B1-B2-B3		D6	10
Practical examination		B1-B2-B3	C1,C2,C3,C4 C5,C6,C7,C8	D4.D5.D6	10
Activities		B1-B2-B3		D1.D2.D3.D4. D5. D6	5

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