



Course Specifications General Surgery

Benha University

Faculty of Veterinary Medicine

Programme on which the course is given: **Bachelor of Veterinary Medicine**

Department offering the course: **Department of Surgery**

Academic year / Level: **4th Year** (First semester)

Date of specification approval: Ministerial Decree No 921, on 15/9/1987

Date of Dept approval: 16-1-2011

A- Basic Information

Title: General Surgery

Code: Vet 00641a

Lecture: 2 hours

Practical: 3 hours

Total: 5 hours

B- Professional Information

1 – Overall Aims of Course:

The aim of the course is to provide the students with a basic education in the field of veterinary surgery and to enable them to gain the skills and attitudes required for the practice of surgery under complete aseptic precautions for treatment of various surgical conditions.

2 – Intended Learning Outcomes of Course (ILOs)

a- Knowledge and Understanding:

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

- a1- State the general basic knowledge about surgical anatomy .
- a2- Identify the basis of the inflammatory process and its consequences, termination and sequel.
- a3- Recognize the principles of general surgery with special reference to the different types of swellings and their differentiation.
- a4- Familiarize the different types of incisions, wounds and fracture management.
- a5- Distinguish the basis of surgical affections of the joint and tendons.

b- Intellectual Skills:

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



- b1- Able to differentiate between different types of swellings.
- b2- Asses the appropriate suture pattern and dealing with different types of wounds .
- b3- Interpret the different types of fractures , joint and tendons affections through collecting the clinical signs and the radiographic pattern.
- b4- Conclude the more suitable time for interference in the different surgical conditions.

c- Professional and Practical Skills:

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

- c1- Practice the accurate antiseptic procedures before surgery.
- c2- Preparing and handling of the different surgical instruments.
- C3-Implement the basic surgical incisions and suture patterns.
- c4- Fixation of simple types of fractures.
- c5- Performing simple surgical interferences.
- c6- Follow up of the surgical cases.

d- General and Transferable Skills:

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

- 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- Contents

Topic	No. of hours	Lecture	Practical
Inflammation	2	2	-
Buritis	1	1	-
Tendon conditions	4	4	-
Joint conditions	4	4	-
Phelgmon and gangrene	1	1	-
Wounds	12	6	6
Fracture	12	6	6
Abscess	4	1	3
Cyst and tumors	1	1	-



Haemorrhage and Haemostasis	4	1	3
Hernia	5	2	3
Fistula and sinus	1	1	-
Burns and scalds	1	1	-
Antisepsis and aseptic procedures	3	-	3
Suture materials	6	-	6
Suture patterns	6	-	6
Dressing and bandage	3	-	3
Clinical cases	6	-	6
Total	75	30	45

4- content-ILOs matrix

Content	ILOs			
	Knowledge and understanding	Intellectual	Professional and practical	General and transferable
Inflammation	a1-a2	b4	C1-c2-c3-c4-c5-c6	D1-d2-d3-d4
Buritis	a1-a3-a4	B3-b4	C1-c2-c3-c4-c5-c6	D1-d2-d3-d4
Tendon conditions	a1- a4- a5	B3-b4	C1-c2-c3-c4-c5-c6	D1-d2-d3-d4
Joint conditions	a1- a4- a5	b4	C1-c2-c3-c4-c5-c6	D1-d2-d3-d4
Phlegmon and gangrene	a1-a2-	b4	C1-c2-c3-c4-c5-c6	D1-d2-d3-d4
Wounds	a1- a4	b2- b4	C1-c2-c3-c4-c5-c6	D1-d2-d3-d4
Fracture	a1- a4	B3-b4	C1-c2-c3-c4-c5-c6	D1-d2-d3-d4
Abscess	a1-a3-a4	B1 -b4	C1-c2-c3-c4-c5-c6	D1-d2-d3-d4
Cyst and tumors	a1-a3-a4	B1 -b4	C1-c2-c3-c4-c5-c6	D1-d2-d3-d4
Haemorrhage and Haemostasis	a1-a3-a4	B1 -b4	C1-c2-c3-c4-c5-c6	D1-d2-d3-d4
Hernia	a1-a2-a3-a4	B1 -b4	C1-c2-c3-c4-c5-c6	D1-d2-d3-d4
Fistula and sinus	a1- a4	b4	C1-c2-c3-c4-c5-c6	D1-d2-d3-d4
Burns and	a1-a2	b4	C1-c2-c3-c4-	D1-d2-d3-d4



scalds			c5-c6	
Antisepsis and aseptic procedures	a1-a2	b4	C1-c2-c3-c4-c5-c6	D1-d2-d3-d4
Suture materials	a1-a2	b3-b4	C1-c2-c3-c4-c5-c6	D1-d2-d3-d4
Suture patterns	a1-a2	b3-b4	C1-c2-c3-c4-c5-c6	D1-d2-d3-d4
Dressing and bandage	a1-a2	b3-b4	C1-c2-c3-c4-c5-c6	D1-d2-d3-d4
Clinical cases	a1-a2	b4	C1-c2-c3-c4-c5-c6	D1-d2-d3-d4

5- Assessment-ILOS matrix

Assessment	ILOS			
	Knowledge and understanding	Intellectual	Professional and practical	General and transferable
Mid – Term exam	✓	✓	✓	
Practical exam	✓		✓	
Oral exam	✓	✓	✓	✓
Final term exam	✓	✓	✓	✓
Assignments and research	✓			✓

6– Teaching and Learning Methods

- 4.1- Cadavers.
- 4.2- Experimental animals.
- 4.3- CD's, slides and video tapes.
- 4.4- Demonstration of surgical instruments.
- 4.5- Teaching x-ray films.



7- Student Assessment Methods

- 5.1 Practical exam to assess professional and practical skills.
- 5.2 Oral exam to assess knowledge and information and intellectual skills.
- 5.3 Written exam to assess knowledge, information and intellectual skills.
- 5.4 Assignments to assess management of clinical cases.

Assessment Schedule

Assessment 1	Assignment	6 th Week
Assessment 2	Mid term Exam	8 th Week
Assessment 3	Practical Exam	14 th Week
Assessment 4	Oral Exam	15 th Week
Assessment 5	Written Exam	15 th Week

Weighting of Assessments

Mid-Term Examination	5 %
Final-term Examination	50 %
Oral Examination.	20 %
Practical Examination	20 %
Semester Work	5 %
Total	100%

8- List of References

8.1- Course Notes

A concise guide of General Veterinary Surgery.

8.2- Essential Books (Text Books)

- An Atlas of Veterinary Surgery, **1980** Johon Hickman and Robert G.Walker
- Dollar's Veterinary Surgery, J.J O'Connor **1982**
- Veterinary Surgery, **1980** E. R Frank
- Treatment of equine fracture, **1989** H.R.Denny
- Current Concepts in Veterinary Surgery, 1985 K. Fouad, M.Saleh and M.Shokry.
- Handbook of Small Animal Orthopedics and Fracture Treatment, 1983 Brinker, Piermattei, Flo.

8.3- Recommended Books

- 1- General Surgery M.V.Plakhoton 1984
- 2- Essentials of Veterinary Surgery AVangoplan

8.4- Periodicals, Web Sites, ... etc



Journal of Veterinary Surgery.
American Journal of Veterinary Medical Association.
American Journal of Veterinary Research.
Veterinary Record.

9- Facilities Required for Teaching and Learning

Surgical laboratory.
Routine surgical kit.
Clinical Teaching cases.
Cadavers.
Experimental and laboratory animals.
Data show and computer lab.

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