

٩. Learning Outcomes, Teaching ,Learning and Assessment Methode

A- Cognitive goals .

A^١-- Teaching the student the concept of surgery and its general principles

A^٢- Knowledge, understanding and comprehension of the scientific subject curriculum

A^٣- To classify the theoretical and practical needs for the development of learning and teaching in the appropriate manner with the scientific material

A^٤- Familiarity with all the surgical procedures for the different organs and organs of the animal's body.

B. The skills goals special to the course. B^١ - Teaching the student how to perform the surgery.

B^٢ - Teaching the student to use scientific methods to anesthetize the animal before performing the operation.

B^٣ - How to sterilize the operating room and sterilize the animal itself, and how the surgeon will sterilize his clothes and tools before the operation.

B^٤- How to care for an animal after surgery post-operative care .

Teaching and Learning Methods

- ١) lectures.
- ٢) Discussions during and after the lecture.
- ٣) Motivation through questions and answers.
- ٤) Homework .
- ٥) Preparation of scientific reports .
- ٦) Student attendance at the veterinary teaching hospital in the surgical aspect of clinical subjects (clinic)

Assessment methods

١. Semester and final theory exams by ٦٠%
٢. Semester and final practical exams at a rate of ٤٠% , from it Daily exams (cues) and Extracurricular activities (reports, making wall posters) ٥%

C. Affective and value goals

- C١.
- C٢.
- C٣.
- C٤.

Teaching and Learning Methods

- ١) lectures.
- ٢) Discussions during and after the lecture.
- ٣) Motivation through questions and answers.
- ٤) Homework .
- ٥) Preparing scientific reports .
- ٦) Performing surgeries in the surgery room at the college in addition to participating in conducting operations in the veterinary teaching hospital within the hours of the clinical application (Clinicals)

Assessment methods

١. Semester and final theory exams by ٦٠%
٢. Semester and final practical exams at a rate of ٤٠% from it Evaluation of extra-curricular activities (reports, posters and homework) by ٥% and Daily exams .

D. General and rehabilitative transferred skills (other skills relevant to employability and personal development)

D ١- Team work: working in harmony with the group or team.

D٢- Initiative Motivation to work: The ability to take the initiative, identify hypotheses, and develop ideas and proposed solutions.

D٣ - Planning & organization: The ability to develop plans and programs that are feasible for implementation.

D ٤- Flexibility: adapting to situations.

D ٥- Time management: The ability to work on specific dates.

١٠. Course Structure (first semester)

Week	Hours	ILOs / practical	Unit/Module or Topic Title / theoretical	Teaching Method	Assessment Method
١	٥	Introduction to surgical theater	Introduction and classification of Surgery	Theoretical (٣ hours) + practical (٢ hours)	daily test
٢	٥		Sterilization	Theoretical (٣ hours) + practical (٢ hours)	daily test
٣	٥	instrumentation	Wound classification	Theoretical (٣ hours) + practical (٢ hours)	Homework
٤	٥		Heamastasis	Theoretical (٣ hours) + practical (٢ hours)	daily test
٥	٥	Preparation of surgical packs	Abscess	Theoretical (٣ hours) + practical (٢ hours)	daily test
٦	٥		Ulcer	Theoretical (٣ hours) + practical (٢ hours)	Homework
٧	٥	review	Tumors	Theoretical (٣ hours) + practical (٢ hours)	daily test
٨	٥	Mid-term exam.			Theoretical (٢٥) and practical (١٠) exams + reports (٥)
٩	٥	Preoperative examination	Affection of the bursa, joints	Theoretical (٣ hours) + practical (٢ hours)	daily test
١٠	٥		Affection of tendon	Theoretical (٣ hours) + practical (٢ hours)	daily test
١١	٥	Sutures and ligatures	History on anesthesia	Theoretical (٣ hours) + practical (٢ hours)	Homework

				hours)	
۱۲	۵		Classification of anesthesia	Theoretical (۳ hours) + practical (۲ hours)	daily test
۱۳	۵	Local anesthesia	Local anesthesia	Theoretical (۳ hours) + practical (۲ hours)	daily test
۱۴	۵	Regional anesthesia	Regional anesthesia	Theoretical (۳ hours) + practical (۲ hours)	daily test
۱۵	۵	General review of articles	Pre-anesthetic consideration	Theoretical (۳ hours) + practical (۲ hours)	
		Final-term exam.			Theoretical and practical exams (۴۰+۲۰)

۱۰. Course Structure (second semester)

Week	Hours	ILOs / practical	Unit/Module or Topic Title / theoretical	Teaching
۱	۵	General anesthesia	Premeditation and muscle relaxant	Theoretical practical
۲	۵		Stages of general anesthesia	Theoretical practical
۳	۵		Volatile and non-volatile anesthetic agents	Theoretical practical
۴	۵	X-ray	Anesthesia of lab Animals and birds	Theoretical practical
۵	۵		Anesthetic accidents	Theoretical practical
۶	۵		Anesthetic accidents treatment	Theoretical practical
۷	۵	review	X-ray	Theoretical practical
۸	۵	Mid-term exam.		
۹	۵	Orthopedics surgery	Radiation hazard and protection	Theoretical practical
۱۰	۵		Diagnostic and procedures of radiology	Theoretical practical
۱۱	۵	Tendon surgery	Processing of X-Ray	Theoretical practical
۱۲	۵	Intra articular injection	Fracture classification	Theoretical practical
۱۳	۵	Laser and endoscopic surgery	Lameness	Theoretical practical

١٤	•	Docking	Affection of hoof	Theoretical practical
١٥	•	General review of articles	Laser in surgery and Endoscopic surgery	Theoretical practical
		Final-term exam.		

١١. Infrastructure	
١. Books Required reading:	non
٢. Main references (sources)	<ul style="list-style-type: none"> ١- Surgical approaches to the bones and joints of the dog and cat , Kenneth A. Johnson ; fifth edition . ٢- Farm animal medicine and surgery for small animal veterinarians , graham R. Duncanson . ٣- Veterinary anesthesia and analgesia , kurt A. Grimm ;the fifth edition of lumb and jones . ٤- Small animal anesthesia techniques , Amanda M. Shelby . ٥- Surgical principles ,BSAVA manual of canine and feline . Stephen baines . ٦-Anesthesia for veterinary technicians , susan Bryant.
A- Recommended books and references (scientific journals, reports...).	non
B-Electronic references, Internet sites...	Wikipedia
١٢. The development of the curriculum plan	

١. Searching for modern methods and means of teaching and learning away from the old traditional recitation method.
٢. Relying on modern educational means to transfer information.
٣. The use of modern devices, machines and technologies, especially electronic ones, to deliver information so that the student uses all his auditory, visual and sensory senses in comprehending and storing the information in his mind.
٤. Using modern surgical techniques and tools and keeping pace with the development in veterinary surgery sciences by following them up in electronic scientific sources, both read and visual.