



SURGICAL SEMIOLOGY and OPERATIVE TECHNIQUES

Study Program: MIMV Curricular Year: 3rd Semester: 6th Compulsory Credits: 4.5 ECTS

Lecturer(s): António Ferreira (CCP), Lisa Mestrinho (R), Esmeralda Delgado, Luís Miguel Carreira, Jorge Correia, Luís Lamas, António Martinho.

1. Contact hours:

Theoretical - 26 hours, Practical - 26 hours, Total - 52 hours

2. Objectives:

Teach students the fundamental concepts of surgery (objectives and basic principles of surgery). Students will acquire theoretical and practical skills related to the entire peri-surgical management of the animal, surgeon, equipment, and facilities. They should also acquire theoretical knowledge and practical skills in basic surgical techniques for large and small animals.

3. Program:

Theoretical sessions

Introduction to the operating room Common surgical problems Approach to the surgery patient: perioperative care Microorganism reduction: concepts and assessment. Antimicrobials in surgery. Inflammation and repair in surgery context. Surgery terminology Hemostasis and tissue handling Tissue synthesis: features, materials, and techniques Osteosynthesis principles Wounds and wound care Dressings and bandages. Transfusion medicine applied to the surgical patient. Types of surgery, from classical to minimal invasive surgery Introduction to ophthalmic microsurgery Common surgery complications and errors

Practical sessions

Asepsis and surgical team preparation. Surgical instruments and equipment. Suture training: patterns applied to different tissues and species Basic osteosynthesis technique training Bandages Basic surgical procedures in dogs and cats Food animal hoof care Basic lab in equine abdominal surgery

4. Bibliography:

Teaching materials produced by the teaching team.

Kirpensteijn, J., Haar, G.T. (2021) The Cutting Edge: Basic Veterinary Surgery Techniques. Sorry For Saying Sorry Media Inc, Lawrence KS, USA, 3rd Editions. Griffon, D. & Hamaide, A. (2016). Complications ins small animal surgery. Wiley Blackwell.





Johnston S.A., Tobias, K.M. (2018). Veterinary surgery: small animal expert consult, 2nd edition. Saunders.

Hendrickson D.A. & Baird, A.N. (2013) Turner and Mcllwraith's techniques in large animal surgery, 4th edition. Wiley Blackwell.

Scientific papers relevant to the curricular unit.

5. Assessment:

The students' knowledge and acquired competences are evaluated continuously (20%) (attendance, active participation in practical labs and an oral presentation combined) and a final written examination including all theoretical and practical contents (80%)