

SURGICAL SEMIOLOGY and OPERATIVE TECHNIQUES

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

Lecturer(s): António Ferreira (CCP), José Limão Oliveira (R), Esmeralda Delgado, Luís Miguel Carreira, Jorge Correia.

1. Contact hours:

Lectures – 26 hours, **Practicals** – 26 hours, **Total** – 52 hours

2. Objectives:

Teach students the fundamental concepts of surgery (objectives and basic principles of surgery). Demonstrate and perform the main sutures and key pads to provide the students the fundamental knowledge and applied basic surgical techniques.

3. Programme:

Lectures:

- General approach to surgery.
- Asepsis and surgical team preparation.
- Sutures and Dressings.
- Gentle handling of tissues.
- Hemostasis.
- Transfusion medicine.
- Fluid.
- Surgical inflammation and scarring.
- Principles of osteosynthesis.
- The shock syndrome.
- Introduction to ophthalmic microsurgery.
- The patient surgery.

Practical:

- Asepsis and surgical team preparation. Surgical supplies (general and special).
- Suture. Execution of the main sutures. Running eye sutures.
- Containment and dressing in small animals.
- Surgical procedures in cat's and dog's corpses, particular orchidectomy and ovariectomy.

4. Bibliography:

Ackermann, M.R. & Brown, D.L. (2011). *Pathologic Basis of Veterinary Disease*. Zachary, J.F. & McGavin, M.D. (Editors). Elsevier.

Alcântara, P. (1993 / 1994). *Apontamentos de Técnica Operatória e Semiologia Cirúrgica*. FMV.

Alexander, A. (1986). *Técnica Quirúrgica en Animales Y Temas de Terapeutica Quirúrgica*. Editorial Interamericana.

Ammann, K. (1974). *Les Sutures en Chirurgie Vétérinaire*. Vigot frères.

Annis, J. R. & Allen, A. R. (1976). *Atlas de Chirurgie Canine*. Vigot.

Bojrab, M.J., Birchard, S.J. & Tomlinson, J.L. (1990). *Current Techniques in Small Animal Surgery*. Lea & Febiger

Cantele, P. H. E. & Méndez, M. A. (2003). *Semiologia e Patologia Quirúrgica*. Mcgraw-Hill / Interamericana.

Slides of the lectures. Teaching materials produced by teaching staff.

5. Assessment:

The students knowledge is evaluated at the end of the term with a written examination including theoretical and practical subjects.