

## **DIAGNOSTIC IMAGING**

**Study Programme: MIMV Curricular year: 5<sup>th</sup> Semester: 9<sup>th</sup> Compulsory Credits: 3.5 ECTS**

**Lecturer(s):** António José Almeida Ferreira (CCP e R), Rui Lemos Ferreira, Luis Pardon Lamas

### **1. Contact hours:**

**Lectures** - 26 hours, **Practicals** – 13 hours, **Total** – 39 hours

### **2. Objectives:**

- To provide the students with the ability of recognising the main radiographic, ultrasonographic signs and its aetiology.
- To help the student develop logic and rapid faculty of reason on possible diagnostic differentials to consider, according to the presented clinical signs.
- To expose the students to the multiple imaging modalities its signs and related aetiologies.
- Students should be able to interconnect the imaging knowledge with that of pathology, medicine and surgery.

### **3. Programme:**

#### **a. Theoretical lectures**

radiographic and ultrasonographic interpretation – approach by anatomical region (dog and cat) thorax ; abdomen; appendicular skeleton; appendicular skeleton (horse); axial skeleton; spine; head; Ultrasonography by anatomical regions

#### **b. Practical lectures**

1. Practical lectures of radiographic, ultrasonographic and computed tomography interpretation.

### **4. Bibliography:**

- Thrall, DE-Textbook of Veterinary Diagnostic Radiology, WB Saunders, 7<sup>a</sup> edição, Philadelphia, 2018.
- Butler; Coles; Dyson; Kold; Poulos, Clinical Radiology of the Horse, Willey Scientific Publications, Oxford, 2017.
- Matton, J.S. Small Animal Diagnostic Ultrasound, Elsevier Health, Philadelphia, 2020.
- Penninck D; Anjou MA-Atlas of Small Animal Ultrasonography, Willey, John, 2015.

### **5. Evaluation:**

The knowledge obtained through the semester will be evaluated through a written exam, which includes the information taught both in theoretical and practical classes. To be approved the student should have a grade higher than 10.