

## IMAGIOLOGY

**Study Programme: MIMV Curricular year: 3<sup>th</sup> Semester: 6<sup>th</sup> Compulsory Credits: 4 ECTS**

**Teaching team:** António José Almeida Ferreira (CCP and R), Sandra Oliveira Jesus, Rita Fonseca, Joana Vidal Pontes

### 1. Contact hours

**Lectures** - 26 hours, **Practicals** – 7,5 hours, **Total** – 33,5 hours

### 2. Objectives

- Transmit the student the idea that imaging is a set of resources that serve , through the image , to clarify some aspects of the case in question . However, the diagnosis should be made taking into account all aspects of the case.
- Train the student in analyzing the image, ie, requiring that the image is observed in a methodical way and from there you extract all the information it can provide.

### 3. Programme

#### 3.1. theoretical

Basic principles of X-radiation, ultrasound , computed tomography , magnetic resonance imaging , scintigraphy . Interpretation of the normal radiographic anatomy by anatomical regions of dog and cat and appendicular skeleton horse.

#### 3.2. practical teaching

Radiographic facilities, radiographic defects , contrast radiographic examinations, positioning radiographic , ultrasound patterns

### 4. Bibliography

- Douglas, SW; Herrtage, ME; Williamson, HD  
Principles of Veterinary Radiology  
Ballière and Tindall, 4th edition, London, 1987.
- Morgan, JP  
Techniques of Veterinary Radiography  
Iowa State University Press, 5th edition, Iowa 1993.
- Thrall, DE  
Textbook of Veterinary Diagnostic Radiology  
6th edition. Elsevier. 2013
- Nyland TG ; Mattoon JS  
Small Animal Diagnostic Ultrasound  
3rd edition. Elsevier Saunders. 2015

### 5. Evaluation of knowledge

The theoretical and practical assessment is performed through a written test with 20 questions, covering every chapter of the matter, with the aim that the answers given are short and succinct manner, within a few lines.

The student must obtain the written evaluation at least 10 values.