

## ANATOMY I

**Code:** Curricular Year: 1<sup>st</sup> Semester: 1<sup>s</sup> **Compulsory Credits: 4.5 ECTS**

**Lecturer(s):** Graça Alexandre-Pires, Prof<sup>a</sup>; (CCP e R) João Afonso Prof.; Fernando Ferreira Prof.; Luísa Jorge, Prof<sup>a</sup>

### 1. Contact hours:

**Lectures - 28 Practicals - 28**

### 2. Objectives:

The goal of Anatomy I is to provide the understanding that body possess a construction pattern that varies according to morphological adaptations of different animals to different and specific functions. Osteology, muscles and joints are understood as part of the locomotion dynamics. Morphology of fish and birds are also part of the programme as well as the lymphatic system.

### 3. Programme:

The contents of this curricular Unit are the following ones:

- 3.1 Anatomical vocabulary proper of the anatomical structures that will form the basis of their work;
- 3.2 elements that constitute the base of the locomotion system (bones of the skull, axial and appendicular bones);
- 3.3 elements that contribute to the mechanics of movement, namely the muscles, their typology and action in the form of groups;
- 3.4 elements that contribute to the mechanics of movement, particularly the joints, their typology, movements, ligaments in major joints of clinical approach;
- 3.5 Organization of body cavities in birds, identifying the different organs, major muscle groups and anatomy from the outside;
- 3.6 Organization of the body cavities in fish, to identify the different organs, major muscle groups and anatomy from the outside;
- 3.7 Elements of the lymphatic system, lymph nodes, linfocenters and lymphatic trunks.

### 4. Bibliography:

- Afonso, J., Ferreira, F., Mendes-Jorge, L. & Alexandre-Pires, G. (2010). *Guia para a Osteologia Veterinária*. FMV, 2010.
- Ashdown, R.R., Done, S.H & Barnett, S.W. (2010). *Color Atlas of Veterinary Anatomy - The ruminants*. Mosby.
- Done, S., Goody, P., Evans, S. & Stickland, N. (2009). *Color Atlas of Veterinary Anatomy - The Dog & Cat*. Mosby.
- Dyce, K.M., Sack, W.O. & Wensing, C.J.G., (2010). *Tratado de Anatomia Veterinária*. Elsevier.
- Getty, R. & Grossman, J. D. & Sisson, S. (2000). *Anatomia dos Animais Domésticos de Sisson e Grossman*. Vol I, Nova Guanabara.
- Mc Lelland, J. (1992). *Atlas en Color de Anatomia de las Aves*. Mc Graw-Hill.
- Ruberte, J. & Sautet, J. (1995). *Atlas de Anatomia del Perro y del Gato - Cabeza y Cuello. Tórax y Miembro Torácico. Abdómen, Pelvis y Miembro Pelviano*. Grafica In Multimedia.
- König HE; Liebich, H-G, 2004, Ed: Artmed. Anatomia dos Animais domésticos- vol 2

### 4. Assessment:

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