

ANATOMY II

Study Programme: MIMV Curricular Year: 1st Semester: 2nd Compulsory Credits: 4.5 ECTS

Lecturer(s): Graça Alexandre-Pires (CCP e R), João Afonso, Fernando Ferreira, Luísa Jorge

1. Contact hours: Lectures - 28, Practicals - 56

2. Objectives

The Anatomy II aims to make students proficient in:

1. Identification, location and morphological characterization of the organs of the digestive, respiratory, urinary, genitals, udder and the cardiovascular system allowing the distinction of these organs in the main animal species;
2. Anatomical organization of the thoracic, abdominal and pelvic cavities, ligaments and mesos;
3. Identification and location of hormone producer organs;
4. Knowledge and identification of muscles responsible for locomotion and movement as well as mimic; their organization into groups and their actions;

Students should understand the functional reason of anatomical structures and clinical application of that knowledge and its variability in animals from the main species.

3. Programme:

1. Elements of the digestive tract, specificity and morphological organization;
2. Elements of the respiratory apparatus organs, specificity and morphological organization;
3. Elements of the genital apparatus, specificity and morphological organization;
4. Elements of the urinary apparatus, specificity and morphological;
5. Elements of the cardiovascular system, specificity and morphological organization;
6. Hormone producer organs, specificity and morphological organization;
7. Elements of the mechanics of movement, namely muscle groups (muscles of the face, the pinna, cervical, shoulder girdle, the back and loins, chest and abdomen, thoracic and pelvic limbs)..

4. Bibliography:

Afonso, J., Ferreira, F., Mendes-Jorge, L. & Alexandre-Pires, G. (2012). *Aparelhos e sistemas nos animais domésticos*. FMV.

Alexandre-Pires, G. (2010). *Notas sobre o Sistema Cardiovascular*. FMV- UTL.

Alexandre-Pires, G., Afonso, J, Ferreira, F, Mendes-Jorge, L. (2014). *Atlas de Miologia*. FMV.

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*. 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*. Grafica In Multimedia.

Ruberte, J. & Sautet, J. (1995). *Atlas de Anatomia del Perro y del Gato - Tórax y Miembro Torácico*. Multimédica/Friskies.

Ruberte, J. & Sautet, J. (1995). *Atlas de Anatomia del Perro y del Gato - Abdómen, Pelvis y Miembro Pelviano*. Multimédica/Friskies.

König HE; Liebich, H-G,2004, Ed: Artmed. Anatomia dos Animais domésticos- vol 2

5. Assessment

The students' knowledge is evaluated at the end of the term with a written examination including theoretical subjects. This component can integrate the grade obtained in group assignments. An oral and practical exam is held at the end of the semester.