

ANATOMY III

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

Lecturer(s): Graça Alexandre-Pires (CCP e R), Luísa Jorge

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

2. Objectives:

Acquisition of terminology of the different structures of the body, and the training that allows the observation of those structures, as well as the idea of the function or the movement that is underlying. Anatomy III discipline gives primacy to the study of the nervous system, senses organs, skin and placenta and placental annexes.

3. Programme:

1. Constitutive elements and functionality of different organ senses (visual, vomeronasal, gustatory, olfactory, auditory, vestibular and common integument);
2. Variations of common integument with particular relevance of udder and hoof;
3. Constitutive elements of the neuroaxis and autonomic nervous system, connection ways of the nervous system, nerve centers, association pathways, ventricular system;
4. Functionality of the constitutive elements of the neuroaxis, and autonomic nervous system; morphology of and autonomic nervous system; responses of the upper and lower motor neuron;
5. Morphology of fetal and placental typology;
6. Identification of vessel and tributary regions;
7. Identification of innervation elements in the different regions of the body.

4. Bibliography:

- Alexandre-Pires, G. & Mendes-Jorge, L. (2003). *Anexo II ao "Guia para as aulas práticas de anatomia III"*. FMV.
- Alexandre-Pires, G. (1996). *Guia para as aulas práticas de Anatomia III*. FMV.
- Alexandre-Pires, G. (1996). *Modalidades de placentação e anexos embrionários nas espécies veterinárias*. FMV.
- Delmas, A. (1973). *Vias e Centros Neurais*. Ed. Guanabara Koogan - 9ª edição.
- 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.
- Schwarze, E. (1970). *Compêndio de Anatomia Veterinária, Sistema Nervioso y Organos de los Sentidos - Tomo IV - Aparato Circulatorio y Piel*. Ed. Acribia.

5. Assessment:

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