

## PARASITOLOGY II

**Study Programme: MIMV Curricular Year: 2<sup>nd</sup> Semester: 4<sup>th</sup> Compulsory Credits: 4.5 ECTS**

**Lecturer(s):** Isabel Fonseca (CCP), Luís Carvalho (R) and José Meireles

### 1. Contact hours:

**Lectures - 28 Practicals - 28 Total - 56**

### 2. Objectives:

Acquire the concept of helminth and its importance in Parasitology.

Recognize the morphobiology, eco-epidemiology and pathophysiology of Trematoda, Cestoda, Nematoda and Acanthocephalan more relevant helminthic in Veterinary Medicine and Public Health.

Develop in the student skills to perform helminthic identification, helminthological laboratory diagnostic techniques and result interpretation.

Prepare the student for other areas of Animal Health, Clinic, Food Safety and Public Health.

### 3. Programme:

**Theoretical:** Introduction to Helminthology. Study in the specialty of parasites belonging to families of Phylum Plathelminthes, Classes Trematoda and Cestoda, Phylum Nemathelminthes, Class Nematoda and Phylum Acantocephala. Learning their morphology, hosts, biology, pathogeny and epidemiology.

**Practical:** Methods of collecting, preserving and identifying helminths, adult and larval stages from blood, faeces, urine and environment samples. Coprology methods and faecal cultures.

Observation and identification of adult and larval stages of helminths of classes Trematoda, Cestoda and Nematoda and Phylum Acantocephala.

### 4. Bibliography:

Bowman, D.D. (2009). *Georgi's Parasitology for Veterinarians*. 9th ed. Saunders Elsevier, Philadelphia, 451 pp.

Bowman, D.D. (2014). *Georgi's Parasitology for Veterinarians*. 10th Ed. Saunders Elsevier, Philadelphia, 477 pp.

Cordero del Campillo, M. & Rojo Vázquez, F.A. (1999). *Parasitologia Veterinaria*. McGraw- Hill, Interamericana, Madrid, 968 pp.

Madeira de Carvalho, L.M., Meireles, J.A., Pereira da Fonseca, I.M. (2009) *Unidades Curriculares de Parasitologia I e II - Notas de Apoio às Aulas Práticas*. Edição dos autores em formato PDF, 150 pp. FMV/ULisboa.

Materiais didáticos produzidos pela equipa docente sob a forma de ficheiros PDF com as apresentações em Powerpoint das aulas teóricas e disponíveis no Moodle.

### 4. Assessment:

The final exam consists of two parts: one practical and other theoretical. The practical test consists of an oral examination that includes the identification of four preparations, 3 related to adult and larval forms of helminths and 1 concerning egg worm identification in a faecal sample by coprological diagnosis. The theoretical examination is written and objective, using multiple choice questions, true and false. The two evaluations have a maximum duration of 2 (two) hours each. The final grade results from the average between theoretical and practical exams. The minimum passing grade is 10 (ten) (from 0 to 20), both for theoretical exam and the practical one.