

PARASITOLOGY II

Study Programme: MIMV Curricular Year: 2nd Semester: 4th Compulsory Credits: 4.5 ECTS

Lecturer(s): Luís Carvalho (CCP, R), Isabel Fonseca 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 in Veterinary Medicine and Public Health.

Student skills development to perform helminthic identification, helminthological laboratory diagnostic techniques and interpretation of results.

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 Nematoda and Phylum Acanthocephala. 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 and Cestoda and Phyla Nematoda and Acanthocephala.

4. Bibliography:

Bowman, D.D. (2021) - Georgi's Parasitology for Veterinarians. 11th Ed. Saunders, Philadelphia, 528 pp.

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

Madeira de Carvalho, L.M. (2024) *FAQs de Parasitologia II. As primeiras 125 dúvidas*. 67 pp.

Madeira de Carvalho, L.M., Meireles, J.A., Pereira da Fonseca, I.M. (2020) *Unidades Curriculares de Parasitologia I e II - Notas de Apoio às Aulas Práticas*. Authors' edition in PDF, FMV/ULisboa, 150 pp.

Zajac, A.M., Conboy, G., Little, S.E., Reichard, M.V. (2021) *Veterinary Clinical Parasitology*. 9th Edition, Wiley-Blackwell, 432 pp.

Teaching materials produced by the teaching team as PDF files with the Powerpoint presentations of the theoretical and practical classes are available in the Moodle of the Curricular Unit.

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 slides, 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. The two evaluations have a maximum duration of 2 (two) hours each. The final grade is the average between the grades of theoretical and practical exams. The minimum passing grade is 10 (ten) (from 0 to 20), both for theoretical exam and the practical one.