

Parasitology

Code: 102659
ECTS Credits: 3

Degree	Type	Year	Semester
2502445 Veterinary Medicine	OB	1	2

Contact

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Use of Languages

Principal working language: catalan (cat)
Some groups entirely in English: No
Some groups entirely in Catalan: Yes
Some groups entirely in Spanish: No

Teachers

Joaquín Castellà Espuny
David Ferrer Bermejo
Ana Maria Ortuño Romero

Prerequisites

Although there are no official prerequisites, it is advisable for the student to review the basic contents of Biology.

Objectives and Contextualisation

This is a compulsory subject in the first year in which the student will have to acquire the theoretical and practical
Develop the student's attitude towards the Parasitic Diseases and Zoono

Competences

- Analyse, synthesise and resolve problems and make decisions.
- Demonstrate knowledge, understanding and differentiation of the main biological agents of veterinary interest.
- Perform basic analytical techniques and interpret the clinical, biological and chemical results, and interpret the results of tests generated by other laboratories.

Learning Outcomes

1. Analyse the importance of parasites in the field of animal health, public health and animal products.
2. Analyse, synthesise and resolve problems and make decisions.
3. Explain the basic principles of relationships between parasites and hosts.
4. Obtain, treat, recognise, identify and classify the main species of parasites of veterinary interest.
5. Properly apply the nomenclature and systematics of parasites.

6. Recognise the morphology and biology of the main parasites that affect animals.

Content

General concepts of parasitology and parasitism. Relationships between parasites and hosts. Study of biology, morphology and life cycle of the main parasites that affect animals.

1- GENERAL CONCEPTS

Presentation. General concepts Types of parasites. Types of hosts. Biology and life cycle of the main parasites that affect animals.

2- PROTOZOUS

Introduction to Protists. Flagellates of the digestive tract. Leishmania and Trypanosoma.

3- PLATYHELMINTHES (FLATWORMS and TAPEWORMS)

Introduction to flatworms. Fasciola and Dicrocoelium. Introduction to tapeworms.

4- NEMATHELMINTHES

Introduction. Rhabditida. Oxyurida. Ascaridida. Strongylida. Spirurida. Echinostomida.

5- ARTHROPODS

Introduction to veterinary entomology. Mites and ticks. Fleas and lice. Diptera and Hymenoptera.

Methodology

The methodology that will be carried out during the entire learning process is based essentially on the student's active participation.

Lectures: Student acquires the basic scientific and technical knowledge of parasitology.

Practical sessions: These sessions aim to develop skills and integrate practical knowledge.

The teaching material used in the course will be available on the Virtual Campus.

Activities

Title	Hours	ECTS	Learning Outcomes
Type: Directed			
Lab practical sessions	10	0.4	1, 2, 5, 4, 6
Lectures	16	0.64	1, 5, 3, 4, 6
Type: Autonomous			
Self-learning	12	0.48	1, 2, 6
study	34	1.36	1, 2, 4, 6

Assessment

In order to pass the subject, students will have to pass different evaluation tests:

A test in the classroom that will be done at the end of the subject and evaluate the theoretical knowledge.

A second test, also carried out in the classroom, will evaluate the theoretical knowledge.

The practices will be evaluated in the laboratory and the final grade obtained. The three parts will be compensable from a minimum mark. In order to pass the course, the student must obtain a minimum mark of 5.0.

Assessment Activities

Title	Weighting	Hours	ECTS	Learning Outcomes
Exams. Written / oral tests and reviews. Continuous evaluation	100	3	0.12	1, 2, 5, 3, 4, 6

Bibliography

Llibres de text

BOWMAN, D.D. (1999). *Georgi's Parasitology for veterinarians*. Seventh edition. Saunders & Co. Toronto.
CORDERO DEL CAMPILLO, M. y col. (1999). *Parasitología Veterinaria*. McGraw-Hill - Interamericana.

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GEORGI, J.R. & GEORGI, M.E. (1992) . *Canine clinical parasitology*. Lea & Febiger. Philadelphia. JACOBS, D.E. (1986) . *A colour atlas of equine parasites*. Baillière Tindall. London.

KAUFMANN, J (1996) . *Parasitic infections of Domestic Animals*. Birkhäuser Verlag. Basel.

MEHLHORN, H. & PIEKARSKI, G. (1993) . *Fundamentos de parasitología: parásitos del hombre y de los animales domésticos*. (trad. de la 3ª edición alemana). Editorial Acribia. Zaragoza.

SOULSBY, E.J.L. (1987) . *Parasitología y enfermedades parasitarias de los animales domésticos*. Trad. 7ª ed. Editorial Interamericana. México.

URQUHART, G.M. et al. (1996) . *Veterinary Parasitology*. Second Edition. Blackwell Science. UK.

Webs

<http://www.dpd.cdc.gov/dpdx/>