

Course Unit	Veterinary Semiology	Field of study	Veterinary Science
Bachelor in	Veterinary Nursing	School	School of Agriculture
Academic Year	2023/2024	Year of study	2
Type	Semestral	Semester	1
Level	1-2	ECTS credits	6.0
Code	9085-783-2104-00-23		
Workload (hours)	162	Contact hours	T - TP - PL - TC - S - E - OT - O -

T - Lectures; TP - Lectures and problem-solving; PL - Problem-solving, project or laboratory; TC - Fieldwork; S - Seminar; E - Placement; OT - Tutorial; O - Other

Name(s) of lecturer(s) Hélder Miranda Pires Quintas

#### Learning outcomes and competences

At the end of the course unit the learner is expected to be able to:

1. Learn the fundamentals of anamnesis and physical examination of small animals, large animals and exotic species to help the veterinary surgeon in clinics activities.
2. Gain knowledge of how to identify different symptoms of animal illness
3. Be able to collecting and handling biological (blood, milk, urine, faeces, ruminal fluid, semen), pathological and non- biological (water, feed) samples.
4. Be familiar with biopsy and necropsy techniques.
5. Be familiar with animal handling and physical restraint.
6. Be aware of professional risks (related to zoonosis) and how to prevent them.
7. Be able to handle and differentiate hospital residues.

#### Prerequisites

Before the course unit the learner is expected to be able to:

1. The students should have previous knowledge of anatomy, biochemistry, behavior and animal welfare.
2. Previous knowledge of physiology, histology and anatomo – pathology.

#### Course contents

I – Anamnesis and physical examination in small animals, large animals and exotic species: II – Collection of material for laboratory examination: III – Biopsy and necropsy techniques IV- Hospital residues. V- Zoonosis and professional risks.

#### Course contents (extended version)

1. Anamnesis and physical examination in small animals, large animals and exotic species.
2. Methods and instruments.
3. The history and medical records. General impression and examination.
4. Examination of digestive tract.
5. Examination of respiratory and cardiovascular systems.
6. Examination of urinary tract, reproductive tract and mammary glands.
7. Examination of skin and ears.
8. Examination of eyes.
9. Examination nervous and locomotor systems.
10. Collection of material for laboratory examination: biological and pathological samples.
11. Biopsy and necropsy techniques.
12. Hospital residues: Handling and management.
13. Zoonosis and professional risks.

#### Recommended reading

1. Aspirall, V. , 2019. Clinical Procedures in Veterinary Nursing. 4th edition, Butterworth Heinemann, Elsevier Health Sciences, Massachusetts, EUA, 362 pp.
2. Boyle, J. , 2016. Crow & Walshaw's Manual of Clinical Procedures in Dogs, Cats, Rabbits & Rodents. 4ª edição, John Wiley & Sons Inc, NY, EUA, 424 p.
3. Feitosa, F. , 2020. Semiologia Veterinária – A Arte do Diagnóstico. 4a edição, Editora Roca, São Paulo, Brasil, 704 pp.
4. Rockett, J. , Bosted, S. , 2015. Veterinary Clinical Procedures in Large Animal Practices. 2ª edição, Cengage Learning, Boston, EUA, 672 pp.
5. Taylor, S. , 2020. Small Animal Clinical Techniques. 3th edition, Saunders Elsevier, Filadélfia, EUA, 320 pp.

#### Teaching and learning methods

Lectures will be support by media and multimedia resources. Practical classes will engage direct working with animals. Everyone is expected to contribute actively to discussions. Non present hours will involve training in a working environment. Graduate students are expected to work largely on their own initiative although with the close support and supervision of a tutor.

#### Assessment methods

1. Test (25%)+Restrict Exam(25%) - (Regular, Student Worker) (Final)
2. Theoretical part (50%) + Practical part (50%) - (Student Worker) (Final)
3. Theoretical part (50%) + Practical part (50%) - (Regular, Student Worker) (Supplementary, Special)

#### Language of instruction

1. Portuguese, with additional English support for foreign students.
2. English

#### Electronic validation

Hélder Miranda Pires Quintas	Álvaro Luís Pegado Lemos Mendonça	Hélder Miranda Pires Quintas	Ramiro Corujeira Valentim
17-01-2024	28-01-2024	29-01-2024	29-01-2024