

1. OVERVIEW

Subject Area	Introduction to Clinical Veterinary Practice
Degree	Bachelor's Degree in Veterinary Medicine
School/Faculty	Biomedical and Health Sciences
Year	Second
ECTS	6 ECTS
Type	Compulsory
Language(s)	Spanish
Delivery Mode	On-campus
Semester	Second semester

2. INTRODUCTION

Introduction to Clinical Veterinary Practice is a subject area that addresses the methods and procedures of clinical examination by species; the general aspects and foundations of anaesthesia, sedation, local and general anaesthesia; and using analgaesics for pain management in clinical practice, general surgery and for recovery from anaesthesia. Finally, it explores the basic principles of surgery, sterilisation and how the surgical team prepares itself, including the basic aseptic technique.

3. SKILLS AND LEARNING OUTCOMES

Basic skills (CB, by their acronym in Spanish):

- CB2. Students can apply their knowledge to their work or vocation in a professional manner, and possess the relevant skills which may be demonstrated by forming and justifying opinions, and problem-solving within their study area (Application of Knowledge).
- CB4. Communicating information, ideas, problems and solutions to both specialist and non-specialist audiences (Communication).

Cross-curricular skills (CT, by their acronym in Spanish):

- CT5. Analysis and Problem-solving. Assess information critically, address complex situations by breaking them down into their various parts, identify patterns, and consider other alternatives, approaches and perspectives in order to reach the best solutions and effective arrangements.

General skills (CG, by their acronym in Spanish):

- CG2. Prevent, diagnose and treat animal diseases, particularly zoonoses, both individually and as part of a team.
- CG7. Identify the risks that arise in all areas of the veterinary profession.

Specific skills (CE, by their acronym in Spanish):

- CE5. Knowledge and application of:
 - a) clinical examination methods and procedures, complementary diagnostic techniques and their interpretation
- CE6. Knowledge and application of:
 - a) clinical study of animal patients and the medical, surgical and dietary treatments they require, as well as sporadic diseases affecting groups (RA1, RA2, RA3, RA6)
 - b) diagnosis (RA1, RA2, RA3, RA4)
 - c) surgical techniques used in veterinary medicine (RA6)
 - d) anaesthesia and recovery in animals (RA5)
 - h) pharmacotherapy (RA5)

Learning outcomes (RA, by their acronym in Spanish):

- RA1. Apply the appropriate methods and procedures of clinical examination for the proper handling of small animals.
- RA2. Apply the appropriate methods and procedures of clinical examination for the proper handling of equine animals.
- RA3. Apply the appropriate methods and procedures of clinical examination for the proper handling of livestock.
- RA4. Assess clinical information obtained, identifying its clinical and pathological implications.
- RA5. Apply the general aspects and foundations of anaesthesia, sedation, local and general anaesthetic, and use analgaesics for pain management in clinical practice, general surgery and for recovery from anaesthesia.
- RA6. Describe the basic principles of surgery, sterilisation and how the surgical team prepares itself, including the basic aseptic technique.

The following table shows how the skills developed in the subject area relate to the intended learning outcomes:

Skills (CE)	Learning outcomes (RA, by their acronym in Spanish)
CE5a	RA1
CE6a	RA1, RA2, RA3, RA6
CE6b	RA1, RA2, RA3, RA4
CE6c	RA6
CE6d	RA5
CE6h	RA5

4. CONTENT

The subject area is divided into three major units (Introduction to Clinical Practice, Foundations of Anaesthesia and Foundations of Surgery) to be taught by means of lectures, group activities, case studies and problem-solving, oral presentations, workshops or simulations, and student work placements. To ensure alignment between theory and practice, students will apply theoretical content in various

practicals. This will be the method of working for the entire subject area.

- Methods and procedures of clinical examination by species:
 - Topic 1: Introduction and Terminology
 - Topic 2: General Examination, Restraint and Sample Collection.
 - Topic 3: Workshop/Skin Examination
 - Topic 4: Workshop/Eye and Ear Examination
- Foundations of Anaesthesia (Applied to the Handling and Examination of Animals)
 - Pre-anaesthetic Assessment and Risks
 - Pre-medication and Anaesthetic Induction
 - Analgesics and General Anaesthetic
 - Airway Management and Monitoring
 - Postoperative Recovery and Care
- Foundations of Surgery
 - Phases of Surgery
 - Preoperative Cleansing and Preparation of the Surgical Site
 - Surgical Equipment: Use and Maintenance
 - Main Sutures
 - Haemostasis in Surgery

5. TEACHING/LEARNING METHODS (MD, by their Spanish acronym)

The types of teaching/learning methods are as follows:

- MD1. Lecture / Web conference
- MD2. Case studies
- MD5. Collaborative learning
- MD6. Learning based on workshop/lab teaching
- MD7. Simulation environments
- MD8. Work Placement: Case Studies

6. LEARNING ACTIVITIES

The types of learning activities, plus the amount of time spent on each activity, are as follows:

On campus:

Learning activity	Number of total hours	Number of hours on campus
AF1. Master lectures	14	14
AF2. Group work (seminars, forums, debates and talks)	8	2
AF3. Case studies and problem-solving	4	2
AF4. Oral presentations	2	2
AF5. Independent working	51	0
AF6. Workshops and/or labs and/or simulation	26	26

AF7. Student work placement	25	25
AF8. Drafting reports or concept maps	14	0
AF10. Tutorials	4	2
AF11. Assessment tests	2	2
TOTAL	150h	75h

7. ASSESSMENT

The assessment methods, plus their weighting in the final grade for the course, are as follows:

On campus:

Assessment system	Weighting
SE1. On-campus theory exams	60%
SE4. Case study/problem	10%
SE5. Oral presentations	10%
SE7. Performance observation	20%

8. BIBLIOGRAPHY

The works of reference for the follow-up of this subject area are:

- Propedéutica en pequeños animales. 2016. L. Carrasco, N. Del Castillo, L. Smith, G. Ortiz, BDS Editores.
- Educación semiológica propedéutica en la formación veterinaria: Una propuesta de innovación para su enseñanza. By: López, Ramón Andrés. In: SEDICI (UNLP); Universidad Nacional de La Plata; instacron:UNLP Language: Spanish; Castilian, Base de datos: OpenAIRE
- Exploración clínica de animales domésticos (caballo, vaca, perro y gato). Prácticas de propedéutica clínica / Santiago Lavín [y otros tres]. Bellaterra (Barcelona) Universitat Autònoma de Barcelona Servei de Publicacions, 2006 167 pàgines : ilustraciones; 28 cm Language: Spanish
- Evaluación continua mediante exámenes clínicos estructurados por objetivos en Propedéutica Clínica Veterinaria. By: Abuelo Sebio, Ángel; Hernández Bermúdez, Joaquín; Benedito Castellote, José Luis; Castillo Rodríguez, Cristina. In: Red U, Vol 13, Iss 3, Pp 189-202 (2015); Universitat Politècnica de València, 2015. Language: English, Base de datos: OpenAIRE
- Evaluación continua mediante exámenes clínicos estructurados por objetivos en Propedéutica Clínica Veterinaria. By: Angel Abuelo Sebio; José Luis Benedito Castellote; Joaquín Hernández Bermúdez; Cristina Castillo Rodríguez. In: REDU. Revista de Docencia

Universitaria. 13:189; Universitat Politècnica de València, 2015., Base de datos: OpenAIRE

- Cirugía en pequeños animales / directora, Theresa Welch Fossum ; ilustradora médica, Laura Pardi Duprey. By: Fossum, Theresa Welch. Barcelona Elsevier, 2019 XV, 1566 páginas : ilustraciones (blanco y negro y color); 29 cm Language: Spanish
- Farm Animal Anesthesia : Cattle, Small Ruminants, Camelids, and Pigs / edited by HuiChu Lin, Thomas Passler, Stuart Clark-Price. Hoboken, New Jersey Wiley Blackwell, 2022 1 recurso en línea (XVII, 311 páginas) : ilustraciones Language: English
- Canine and Feline Anesthesia and Co-Existing Disease / edited by Lindsey B. C. Snyder, Rebecca A. Johnson. Hoboken, New Jersey John Wiley & Sons, 2022 1 recurso en línea (680 páginas) : ilustraciones, tablas Language: Undetermined
- BSAVA Manual of Canine and Feline Anaesthesia and Analgesia / editors, Tanya Duke-Novakovski, Marieke de Vries and Chris Seymour. Quedgeley, Gloucester British Small Animal Veterinary Association, 2016 1 recurso en línea (XXXI, 474 páginas) : ilustraciones Language: English
- Veterinary Anesthetic and Monitoring Equipment / edited by Kristen G. Cooley, Rebecca A. Johnson. Hoboken, New Jersey Wiley Blackwell, 2018 1 recurso en línea : ilustraciones Language: English