Information about the subject

Degree: Bachelor of Science Degree in Veterinary Medicine

Faculty: Faculty of Veterinary Medicine and Experimental Sciences

Code: 1260303 **Name:** Pet Clinic

Credits: 6,00 **ECTS Year:** 3 **Semester:** 2

Module: Module of Clinical Sciences and Animal Health

Subject Matter: Clinical Sciences and Animal Health **Type:** Compulsory

Department: Veterinary Medicine and Surgery

Type of learning: Classroom-based learning

Languages in which it is taught: Spanish

Lecturer/-s:

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Module organization

Module of Clinical Sciences and Animal Health

Subject Matter	ECTS	Subject	ECTS	Year/semester
Alterations in Structure and Function, and Fundamentals of Diagnosis	36,00	Clinical diagnostic techniques I (Clinical Propedeutics)	6,00	3/1
		Clinical Diagnostic Techniques II (Imaging Diagnosis)	6,00	3/1
		Histopathology and General Pathological Anatomy	6,00	2/1
		Physiopathology and general integrated Pathology I	6,00	2/1
		Physiopathology and general integrated Pathology II	6,00	2/2
		Special pathological anatomy	6,00	2/2
Pharmacology and Therapeutics	12,00	Pharmacology and Toxicology	6,00	3/1
		Pharmacotherapy, preventive medicine and veterinary hygiene	6,00	5/1
Clinical Sciences and Animal Health	60,00	Clinic and health in equines	6,00	3/2
		Clinic and health in water animals	6,00	5/1
		Clinic and health in wild and exotic animals	6,00	3/2

Clinical Sciences and Animal Health	Clinic and health on the farm I	6,00	4/1
	Clinic and health on the farm II	6,00	4/2
	Epidemiology	6,00	3/1
	Pet Clinic	6,00	3/2
	Reproduction and Obstetrics	6,00	3/1
	Veterinary Surgery I	6,00	3/2
	Veterinary Surgery II	6,00	4/1

Recommended knowledge

Previous requirements: To have basic knowledge of Anatomy, Physiology, Pathophysiology, Pharmacology, Clinical Diagnosis I and II.

Learning outcomes

At the end of the course, the student must be able to prove that he/she has acquired the following learning outcomes:

R1	The student is able to solve problems related to the contents of the module.
R2	Defending their work or arguing the questions asked according to rational criteria.
R3	The student knows and understands the main causes and pathogenic mechanisms of the most common pathologies in dogs and cats.
R4	The student is able to establish a diagnostic plan in order to make a diagnostic judgement.
R5	The student is able to issue a prognosis, assessing the evolution of the pathology studied.
R6	The student knows the prophylaxis and hygienic-dietary or medicine therapy of the main diseases of dogs and cats.
R7	The student is able to do a complete clinical examination.
R8	The student is able to collect biological samples and process them.
R9	The student is able to write documents related to the subject and work in a team.
R10	The student knows how to use different working techniques in the laboratory and interpret the results.
R11	The student searches bibliographic information from different sources and knows how to analyse it with a critical and constructive spirit.

Competencies

Depending on the learning outcomes, the competencies to which the subject contributes are (please score from 1 to 4, being 4 the highest score):

BASIC		Weighting			
		1	2	3	4
CB2	Capacity to apply knowledge to work or occupation in a professional way and have the competences that are proved by preparing and arguing topics and problem-solving in their specific field of study.				x
CB3	Capacity to gather and interpret relevant data usually within their specific field of study and capacity to make judgments that include reflection on relevant social, scientific or ethical issues.				x
CB4	Capacity to communicate information, ideas, problems and solutions at specialist and non-specialist levels.				x
CB5	Capacity to develop those learning skills needed to undertake further studies with a high degree of autonomy.				x

GENERAL		Weighting			
		1	2	3	4
CG0	Capacity to speak well in public.				x
CG2	Understanding and applying prevention, diagnosis and individual or collective treatment , and control of animal diseases, individually or in groups, with special attention to zoonoses.				x
CG3	Understanding and applying control of animal breeding, management, health, reproduction, protection, and feed as well as improving production.	x			
CG5	Understanding and applying laws, regulations and administrative provisions in all areas of the veterinary profession and public health, understanding the ethical implications of health in a changing global context.			x	
CG6	Developing professional practice, acquiring skills related to teamwork, with an efficient use of resources and quality management.				x

CG7	Identifying emerging risks in all areas of the veterinary profession.		x		

SPECIFIC		Weighting			
		1	2	3	4
E24	Knowing and applying methods and procedures of clinical examination, additional diagnostic techniques and their interpretation.				x
E25	Knowing and applying imaging diagnostic and radiation biology.			x	
E26	Knowing and applying necropsy.	x			
E27	Knowing and applying recognition and diagnosis of different types of injuries and their association with pathological processes.				x
E28	Knowing and applying the clinical study of patients and medical, surgical or hygienic-dietary treatments required, as well as sporadic diseases affecting groups.				x
E29	Knowing and applying diagnosis.				x
E30	Knowing and applying surgical techniques used in veterinary.	x			
E31	Knowing and applying animal anesthesia and resuscitation.	x			
E32	Knowing and applying reproduction, birth and postpartum: care and disease.	x			
E33	Knowing and applying assisted reproduction.	x			
E34	Understanding and applying fish pathology.	x			
E36	Knowing and applying pharmacotherapy.				x
E39	Knowing and applying transmission and maintenance of disease and methods of study of disease in populations.				x
E40	Knowing and applying infectious and parasitic diseases related to veterinary practice including diagnosis and control.				x
E41	Knowing and applying zoonoses and public health.				x

E42	Knowing and applying the promotion of collective health in animals, including wildlife, in order to maximize the economic performance in a social, ethical and healthy way.			x	
E43	Knowing and applying technical measures and regulations for the prevention, control and eradication of animal diseases.				x

TRANSVERSAL		Weighting			
		1	2	3	4
T1	Capacity of analysis, synthesis, implementation of knowledge for problem-solving and decision-making.				x
T2	Understanding and applying the scientific method to professional practice including evidence-based medicine.				x
T3	Basic knowledge of the veterinary profession: legal, economic, administrative, planning and time management issues and the veterinarians' society together with the importance of monitoring quality, standardization and protocols of veterinary practice.			x	
T4	Mastering fluency in oral and written mother tongue communication, listening and responding effectively using a language appropriate to audience and context.				x
T6	Using information technology to communicate, share, search for, collect, analyze and manage information, especially related to the veterinarian practice.				x
T7	Ability to adapt to new situations, self-critical ability, being aware of personal limitations and understanding when and where seeking and obtaining advice and professional help.				x
T8	Efficient and effective work, both independently and as a member of a multidisciplinary team or unit, showing respect, appreciation and sensitivity to the work of others.				x
T9	Keeping an ethical behaviour in the exercise of given responsibilities toward the profession and society.		x		
T10	Ability to learn, to research, and to be aware of the need to keep knowledge updated, and attending training programs.				x

Assessment system for the acquisition of competencies and grading system

Assessed learning outcomes	Granted percentage	Assessment method
R1, R2, R3, R4, R5, R6, R9, R11	30,00%	Written assessment of acquired knowledge and skills. The test may consist of a series of open-ended questions or multiple-choice questions about the theoretical contents of the module and/or practical exercises (problem-solving).
R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11	10,00%	Evaluation of the use of the practical lessons in the classroom, of problems or computer science, seminars and tutorials, by means of participation, computer-supported problem solving and the elaboration of the corresponding reports.
R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11	10,00%	Evaluation of the practical laboratory work, which must demonstrate the competences acquired by the student and his or her ability to use them to solve the different situations and problems that arise in a laboratory; this assessment may consist of one of the following methods, or a combination of several of them: an individual written test, the individual or group performance of a laboratory experience, the delivery of an individual or group report on the work carried out in the laboratory.
R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11	10,00%	Evaluation of practical work in a clinic through which the student must demonstrate the competences acquired and the ability to use them to solve the different situations and problems that arise in a clinic; this assessment may involve one of the following methods, or a combination of several of them: a written individual test, the individual or group performance of a clinical experience, the delivery of an individual or group report on the work carried out in the laboratory.

R1, R2, R3, R4, R5, R6, R9, R11	20,00%	Evaluation of group work through a system of continuous assessment throughout the course based on the delivery of assignments the objectives and content of which will be proposed by the teacher.
R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11	20,00%	Evaluation of activities in which the student must do some research individually and structure information related to each of the topics through a system of continuous assessment throughout the course based on the delivery of papers, the objectives and contents of which will be proposed by the teacher.

Observations

This course cannot be assessed by a single assessment.
The written exam represents 30% of the final grade. For this purpose, a theoretical knowledge exam will be conducted. The theoretical exam will consist of multiple-choice and/or short questions. Failure to pass the theoretical section will prevent the student from passing the entire course.
Attendance at practical sessions is mandatory. During practical sessions, the professor will monitor each student's attendance and attitude. Factors such as attention, participation, and interest shown during the practical session will be taken into account. The assessment of practical activities constitutes 30% of the final grade.
The assessment of supervised work (group and individual work) contributes 40% of the final grade. Students will complete two continuous online assessments of theoretical knowledge and clinical cases to be worked on individually or in groups.
The use of tools based on artificial intelligence (AI) is subject to the instructor's discretion, who may establish specific limits or conditions depending on the training or assessment activity.
Overall Assessment:
The results of the various scheduled assessment activities are weighted for the final grade. To pass the course, students must obtain a grade equal to or greater than 50 points out of 100 in the first section and in the final grade for the course.
Criteria for Awarding Honors: At the instructor's discretion, one honors degree may be awarded for every 20 students (not for fractions of 20, except for the first 20 students). Honors may only be awarded in the first or second sitting of the student's first year of enrollment in the course.
Exam Review: After the grades appear, students will have access to the schedules published on the platform to review their exams, unless specifically indicated otherwise by the instructor. Outside of these schedules, exams will not be displayed. For those students who, for various reasons, do not attend the evaluation of some of the parts on the official call date, the extraordinary evaluations may be carried out with an oral exam.

MENTION OF DISTINCTION:
In accordance with the regulations governing the assessment and grading of subjects in force at UCV, the distinction of "Matrícula de Honor" (Honours with Distinction) may be awarded to students who have achieved a grade of 9.0 or higher. The number of "Matrículas de Honor" (Honours with Distinction) may not exceed five percent of the students enrolled in the group for the corresponding academic year, unless the number of enrolled students is fewer than 20, in which case a single "Matrícula de Honor" (Honours with 9 Distinction) may be awarded. Exceptionally, these distinctions may be assigned globally across different groups of the same subject. Nevertheless, the total number of distinctions awarded will be the same as if they were assigned by group, but they may be distributed among all students based on a common criterion, regardless of the group to which they belong. The criteria for awarding "Matrícula de Honor" (Honours with Distinction) will be determined according to the guidelines stipulated by the professor responsible for the course, as detailed in the "Observations" section of the evaluation system in the course guide.

Learning activities

The following methodologies will be used so that the students can achieve the learning outcomes of the subject:

M1 On-site training activity aimed primarily at acquiring knowledge acquisition skills. It is characterised by the fact that students are spoken to. Also called master class or exposition, it refers to the oral presentation made by the teacher, (with the support of blackboard, a computer and a projector for the display of texts, graphs, etc.), in front of a group of students. They are expository, explanatory or demonstrative sessions of contents. The size of the group is determined by the limit or physical capacity of the classroom; therefore, it is a single group.

M2 On-site training activity aimed primarily at obtaining knowledge application and research skills. Knowledge is built through interaction and activities. The activity consists of supervised monographic sessions with shared participation (teachers, students, experts). The size of the group is variable, from one large group to various small groups, with a minimum of 6 students to ensure interaction. The evaluation will be based on follow-up records kept by the teacher. Participation and the development of the capacity to problematize should be taken into account.

M3 On-site group-work training activity oriented toward problem solving under the supervision of a teacher. It would correspond to "Animal-free supervised practical work", type e1, from the European evaluation of EAEVE. The size of the group is variable, in a range of 10 to 20 students, to differentiate it from a master class.

M4 On-site training activity in groups that takes place in the classroom. It includes working with documents and formulating ideas without handling animals, organs, objects, products, or corpses (e.g., work with articles or documents, clinical case studies, diagnostic analyses, etc.). It would correspond to "Animal-free supervised practical work", type e1, from the European evaluation of EAEVE. The size of the group is variable, in a range of 10 to 20 students.

M5 On-site training activity in groups that takes place in the Computer Lab where the computer is used as support for learning. It includes work with computer models, specific software, Web queries, etc. It would correspond to "Animal-free supervised practical work", type e1, from the European evaluation of EAEVE. The size of the group is variable, in a range of 10 to 20 students.

M6 On-site training activity in groups carried out in the laboratory. It includes the sessions where the students develop laboratory experiments, make dissections or use the microscopes for the study of histological or histopathological samples actively and autonomously, under the supervision of the professor. It also includes work with healthy animals, objects, products, corpses (e.g., animal handling, bacteriological practices, physiology or biochemistry, meat inspection, etc.). It would correspond to the "Supervised practical non-clinical animal work" type e2 of the European evaluation of EAEVE. The size of the group is variable, in a range of 10 to 20 students.

M7 On-site training activity that is defined as the clinical practical work developed in the Veterinary Clinical Hospital or clinical centres ascribed to the University, as well as itinerant clinical practices, mainly with ruminants, equids, pigs, birds and aquatic animals. Also included are necropsies, surgical workshops and training in clinical examination techniques or diagnosis with healthy patients. In these practical sessions the student will always work with animals, which can be healthy (e.g. propaedeutic or obstetrics) or clinical cases (individual or collective), including a protocol or work scheme, being supervised by a teacher and assuming the provision of a service. This type of training corresponds to type e3 of the EAEVE European evaluation called "Clinical Training" (strickly hands-on)". The size of the group will be 5 students or fewer.

M8 A set of on-site training activities carried out by the teacher to provide personalised attention to the student or in small groups with the aim of reviewing and discussing the materials and topics presented in classes, seminars, readings, carrying out projects, etc. The aim is to ensure a truly comprehensive education of the student rather than a mere transfer of information. It is, therefore, a personalized assistance relationship in which the tutor assists, facilitates and guides one or more students in the learning process.

M9 Set of processes that attempt to evaluate the learning outcomes of students expressed in terms of acquired knowledge, capacities, skills or abilities developed and manifested attitudes. It covers a wide range of activities that can be developed for students to demonstrate their training (e.g. written, oral and practical tests, projects or assignments). It also includes the Official Calls.

M10 Autonomous training activity, including activities and coursework, bibliographic searches. The results obtained from unsupervised group and teamwork will be evaluated, with particular attention paid at the time of evaluation to the acquisition of specific knowledge development skills through group work.

M11 Autonomous training activities related to personal study, or the preparation of individual course assignments. The individual preparation of readings, essays, problem solving, papers, reports, etc. will be evaluated through presentations or submissions during theoretical classes, practical classes, seminars and/or tutorials. The evaluation of the submitted papers will consider the structure of the paper, the quality of the documentation, originality, spelling and presentation.

IN-CLASS LEARNING ACTIVITIES

	LEARNING OUTCOMES	HOURS	ECTS
Theoretical lessons (TL) M1	R1, R2, R3, R4, R5, R6, R9	60,00	2,40
Seminars (S) M2	R1, R2, R3, R4, R5, R6	4,00	0,16
Problem-solving Practice (PSP) M3, M4	R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11	1,00	0,04
Laboratory Practice (LP) M6	R1, R2, R10	3,00	0,12
Clinical Practice (CP) M7	R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11	22,00	0,88
Tutorial M8	R1, R2, R11	3,00	0,12
Evaluation (Ev) M9	R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11	5,00	0,20
TOTAL		**98,00**	**3,92**

LEARNING ACTIVITIES OF AUTONOMOUS WORK

	LEARNING OUTCOMES	HOURS	ECTS
Group work M10	R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11	12,00	0,48
Individual work M11	R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11	40,00	1,60
TOTAL		**52,00**	**2,08**

Description of the contents

Description of the necessary contents to acquire the learning outcomes.

Theoretical contents:

Content block	Contents
DU 1.- INTRODUCTION TO THE SMALL ANIMAL INTERNAL MEDICINE	Introduction to the subject and to the assessment method. **COMPETENCES: CB2, CB3, CB4**
DU 2 - HEMATOLOGY	Lecture 1. INFECTIOUS AND PARASITIC DISEASES OF HAEMOLYMPHATIC SYSTEM. Leishmaniasis. Ehrichiosis. Feline Infectious Anemia. Feline panleukopenia. Feline infectious leukemia. Lecture 2 ANEMIA CLASSIFICATION. Regenerative and non-regenerative anemias, diagnostic and therapeutic approach. Lecture 3 HEMATOLOGY AND AUTOIMMUNE DISEASES. Immune-mediated hemolytic anemia, immune-mediated thrombocytopenia, diagnostic and therapeutic approach. Immunosuppressive agents. **COMPETENCES: CB2, CB3, CB4, CG2, CG7, T1, T2, T3, T4, T6, T8, T10, E24, E25, E27, E29, E36, E39, E40, E41, E42, E43**

DU. 3 - HEPATOBILIARY DISEASES	Lecture 4 INFECTIOUS DISEASES OF THE HEPATOBILIARY SYSTEM. Canine Infectious Hepatitis. Lecture 5 DIAGNOSTIC AND THERAPEUTIC APPROACHES TO HEPATOBILIARY DISEASES. Gallbladder diseases, causes, symptoms, diagnosis and treatment. Lecture 6 MOST FREQUENT DISEASES OF THE HEPATOBILIARY SYSTEM IN DOGS. Portosystemic shunt and hepatic encephalopathy, causes, symptoms, diagnosis and treatment. Lecture 7 MOST FREQUENT DISEASES OF THE HEPATOBILIARY SYSTEM IN CATS. Feline hepatic lipidosis and inflammatory hepatitis, causes, symptoms, diagnosis and treatment. **COMPETENCES: CB2, CB3, CB4, CG2, CG7, T1, T2, T3, T4, T6, T8, T10, E24, E25, E27, E29, E36, E39, E40, E41, E42, E43**

DU. 4 – GASTROINTESTINAL TRACT DISEASES

Lecture 8. INFECTIOUS AND PARASITIC DISEASES OF THE GASTROINTESTINAL TRACT. Canine viral enteritis (Parvovirus. Rotavirus. Coronavirus) feline viral enteritis (Feline Infectious Peritonitis). Parasitic gastroenteritis (Coccidiosis, Giardiasis, Trichomonosis. Cestodes. Toxocariosis. Ancilostomatidosis. Trichurosis).

Lecture 9. ESOPHAGUS AND STOMACH DISEASES. Esophagitis, megaesophagus and major diseases of the stomach, causes, symptoms, diagnosis and treatment.

Lecture 10 BOWEL DISEASES. Inflammatory bowel disease, protein losing enteropathy, adverse food and bacterial overgrowth of the small intestine, causes, symptoms, diagnosis and treatment reactions.

Lecture 11 DISEASES OF THE INTESTINE. Inflammatory disease, obstructive disease and motility disorders, causes, symptoms, diagnosis and treatment.

Lecture 12 DISEASES OF THE PANCREAS EXOCRINE. Pancreatitis, causes, symptoms, diagnosis and treatment.
COMPETENCES: CB2, CB3, CB4, CG2, CG7, T1, T2, T3, T4, T6, T8, T10, E24, E25, E27, E29, E36, E39, E40, E41, E42, E43

DU. 5 - DISEASES OF THE URINARY SYSTEM	Lecture 13 ACUTE AND CHRONIC RENAL FAILURE. Causes, symptoms, diagnostic plan for acute and chronic renal failure and its treatment. Lecture 14 INFECTIOUS DISEASES AFFECTING THE URINARY SYSTEM: Leptospirosis. Lecture 15 INFLAMMATORY CYSTITIS (Feline Idiopathic Cystitis, urolithiasis and Flud): Diagnosis and treatment of the main types of inflammatory cystitis and treatment of the urinary obstruction. Lecture 16 URINARY TRACT INFECTIONS. Causes, symptoms, diagnosis and treatment. **COMPETENCES: CB2, CB3, CB4, CG2, CG7, T1, T2, T3, T4, T6, T8, T10, E24, E25, E27, E29, E36, E39, E40, E41, E42, E43**
DU. 6 - ENDOCRINE SYSTEM	Lecture 18 ACROMEGALY/ DIABETES INSIPIDUS. Causes, symptoms, diagnosis and treatment. Lecture 18 HYPERADRENOCORTICISM/ HYPORADRENOCORTICISM. Causes, symptoms, diagnosis and treatment. Lecture 19 HYPERTHYROIDISM/ HYPOTHYROIDISM. Causes, symptoms, diagnosis and treatment. Lecture 20 DIABETES MELLITUS. Causes, symptoms, diagnosis and treatment of diabetes mellitus and diabetic ketoacidosis. **COMPETENCES: CB2, CB3, CB4, CG2, CG7, T1, T2, T3, T4, T6, T8, T10, E24, E25, E27, E29, E36, E39, E42, E43**

DU. 7 - NERVOUS SYSTEM DISEASES	Lecture 21 INTRACRANIAL DISEASES: Neoplastic, inflammatory, infectious, vascular procedures, head trauma, diagnostic and therapeutic approach. Lecture 22 VESTIBULAR DISEASES. Central vestibular syndrome and peripheral diagnostic and therapeutic approach. Lecture 23 DISEASES OF THE SPINAL CORD. Causes, symptoms, diagnosis and therapy of major abnormalities of the vertebrae and the meninges. Lecture 24. TREATMENT OF EPILEPSY AND SEIZURES. Causes, symptoms, diagnosis and therapy. **COMPETENCES: CB2, CB3, CB4, CG2, CG7, T1, T2, T3, T4, T6, T8, T10, E24, E25, E27, E29, E36, E39, E42, E43**
DU 8 -. DISEASES OF THE EYE	Lecture 25. PATHOLOGIES OF THE DIFFERENT PORTIONS OF THE OCULAR GLOBE AND ANNEXES Lecture 26. OCULAR PHARMACOLOGY. Therapeutic principles of major eye diseases. **COMPETENCES: CB2, CB3, CB4, CG2, CG7, T1, T2, T3, T4, T6, T8, T10, E24, E25, E27, E29, E36, E39, E42, E43**
DU. 9 - SKIN DISEASES	Lecture 27. PRACTICAL DERMATOLOGY IN COMPANION ANIMALS I: pruritic syndromes and otitis. Lecture 28. PRACTICAL DERMATOLOGY IN ANIMALS OF COMPANY II: diagnostic approach of the main dermatological alterations. **COMPETENCES: CB2, CB3, CB4, CG2, CG7, T1, T2, T3, T4, T6, T8, T10, E24, E25, E27, E29, E36, E39, E42, E43**

DU 10 -. RESPIRATORY DISEASES	Lecture 29. INFECTIOUS AND PARASITIC RESPIRATORY DISEASES. Canine infectious tracheobronchitis. Feline respiratory complex. Nasal aspergillosis. Parasitic bronchopneumonia (angiostrongylosis, Aelurostrongylosis) Lecture 30 NASAL AND UPPER AIRWAYS DISEASES. Rhinitis, brachycephalic syndrome, laryngeal collapse, tracheal collapse, diagnostic and therapeutic approach. Lecture 31 LUNG AND PLEURA DISEASES. Pneumonia, pleural effusion, pneumothorax, diagnostic and therapeutic approach. Lecture 32. DIAGNOSTIC APPROACH TO THE PATIENT WITH COUGH AND DYSPNEA. **COMPETENCES: CB2, CB3, CB4, CG2, CG7, T1, T2, T3, T4, T6, T8, T10, E24, E25, E27, E29, E36, E39, E40, E41, E42, E43**
DU 11 -. CARDIOVASCULAR DISEASES	Lecture 33. CARDIOVASCULAR PARASITIC DISEASES. Heartworms. Lecture 34 HEART FAILURE. Classification of heart failure, causes, symptoms, diagnosis and therapeutic considerations. Lecture 35 CARDIAC ARRHYTHMIAS. Causes, symptoms, diagnosis of major cardiac arrhythmias and treatment. Lecture 36 CONGENITAL AND ACQUIRED VALVULAR HEART DISEASES. Causes, symptoms, diagnosis and therapeutic considerations. Lecture 37 CARDIOMYOPATHIES. Classification of myocardial disease, causes, symptoms, diagnosis and therapeutic considerations. **COMPETENCES: CB2, CB3, CB4, CG2, CG7, T1, T2, T3, T4, T6, T8, T10, E24, E25, E27, E29, E36, E39, E40, E41, E42, E43**

DU 12 - EMERGENCY MEDICINE	Lecture 38. TRANSFUSION MEDICINE AND FLUIDOTHERAPY. Therapeutic considerations in patients with anemia and hypoalbuminemia. Lecture 39. APPROACH EMERGENCY PATIENT Lecture 40. CARE OF THE POLITRAUMA Lecture 41. RESPIRATORY EMERGENCIES. **COMPETENCES: CB2, CB3, CB4, CG2, CG7, T1, T2, T3, T4, T6, T8, T10, E24, E25, E27, E29, E36, E39, E40, E42, E43**
PRACTICES	·1st day hospital clinical rotation ·2nd day hospital clinical rotation ·3rd day hospital clinical rotation ·4th day hospital clinical rotation ·5th day hospital clinical rotation ·Seminar cardiology ·Respiratory seminar ·Emergency seminar ·Ophthalmology Seminar ·Endoscopy and Laparoscopy Practice ·Clinical case Exhibition
EVALUATION & TUTORIAL	Evaluation and tutorial

Organization of the practical activities:

	Content	Place	Hours
PR1.	1st day hospital clinical rotation	Hospital	6,00
PR2.	2nd day hospital clinical rotation	Hospital	6,00
PR3.	3rd day hospital clinical rotation	Hospital	6,00
PR4.	4th day hospital clinical rotation	Hospital	6,00
PR5.	5th day hospital clinical rotation	Hospital	6,00
PR6.	Endoscopy and Laparoscopy Practice	Drylab	3,00
PR7.	Cardiology seminar	Lecture room	1,00
PR8.	Respiratory seminar	Lecture room	1,00
PR9.	Emergency seminar	Lecture room	1,00
PR10.	Ophthalmology Seminar	Lecture room	1,00

Temporary organization of learning:

Block of content	Number of sessions	Hours
DU 1.- INTRODUCTION TO THE SMALL ANIMAL INTERNAL MEDICINE	1,00	2,00
DU 2 - HEMATOLOGY	3,00	6,00
DU. 3 - HEPATOBILIARY DISEASES	4,00	8,00
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- Argos
- Clínica de pequeños animales (AVEPA)
- Compendium of Continuing Education for the practicing veterinarian.
- Consulta de difusión veterinaria
- Journal of American Veterinary Medical Association.
- Journal of the American Animal Hospital Association
- Journal of Veterinary Internal Medicine.
- Veterinary clinics of North America: Small animal practice.
- Veterinary Pathology (http://vet.sagepub.com/)
- Veterinary Record.