

Postgraduate Certificate

Uveal and Retinal
Diseases and Surgery
in Small Animals



Postgraduate Certificate Uveal and Retinal Diseases and Surgery in Small Animals

- » Modality: **online**
- » Duration: **6 weeks**
- » Certificate: **TECH Global University**
- » Credits: **6 ECTS**
- » Schedule: **at your own pace**
- » Exams: **online**

Website: www.techtute.com/us/veterinary-medicine/postgraduate-certificate/uveal-retinal-diseases-surgery-small-animals

Index

01

Introduction

p. 4

02

Objectives

p. 8

03

Course Management

p. 12

04

Structure and Content

p. 16

05

Methodology

p. 20

06

Certificate

p. 28

01

Introduction

The uvea is one of the most important structures of the eyeball, it houses the iris, ciliary body and choroid. This program focuses on the study of diseases of the anterior uvea and the surgical approaches employed in its treatment, and develops knowledge of the alterations that affect these structures. A high-quality program developed to lead the veterinary professional towards the type of specialization required in Small Animal Ophthalmology. A unique opportunity to get up to date and compete among the best in the field.





“

The most complete and up-to-date study on diseases affecting the uvea and retina in small animals, and how to approach these in the veterinary clinic"

In this program, we will address the anatomy and main alterations of the structures that compose the anterior uvea.

Uveal diseases are common in clinical practice. Uveal disorders may be caused by ocular disorders, or may be due to systemic diseases. Correct knowledge of the kinds of disorders that can cause disease in the anterior uvea will allow for a correct diagnosis and treatment of our patients.

Inflammation of the uvea is an important disorder that may be caused by multiple factors. It must be identified as quickly as possible, as an erroneous diagnosis with subsequent treatment will lead to serious complications that could result in loss of vision, and also of the eyeball.

As regards the retina, we will discuss the diagnostic methods that can be obtained in daily practice, from the most basic to the most advanced, in order to reach an understanding of the possible abnormalities our patients may be presenting.

During the program, the main pathologies affecting the anterior uvea will be studied, in order to establish a differential diagnosis and the most appropriate treatment in each case.

This **Postgraduate Certificate in Uveal and Retinal Diseases and Surgery in Small Animals** contains the most complete and up-to-date scientific program on the market.

Its most important features include:

- ♦ Case studies presented and developed by experts in Veterinary Ophthalmology
- ♦ Graphic, schematic, and practical contents created to provide scientific and practical information on the disciplines that are essential for professional practice
- ♦ Practical exercises where self-assessment can be used to improve learning
- ♦ Its special emphasis on innovative methodologies
- ♦ Theoretical lessons, questions to the expert, debate forums on controversial topics, and individual reflection assignments
- ♦ Content that is accessible from any fixed or portable device with an Internet connection



A comprehensive Postgraduate Certificate that will propel your career to a higher level of proficiency with ease and efficiency"

“

Through the efficiency of a study system created for online teaching, this program is the best option available to boost your professional growth”

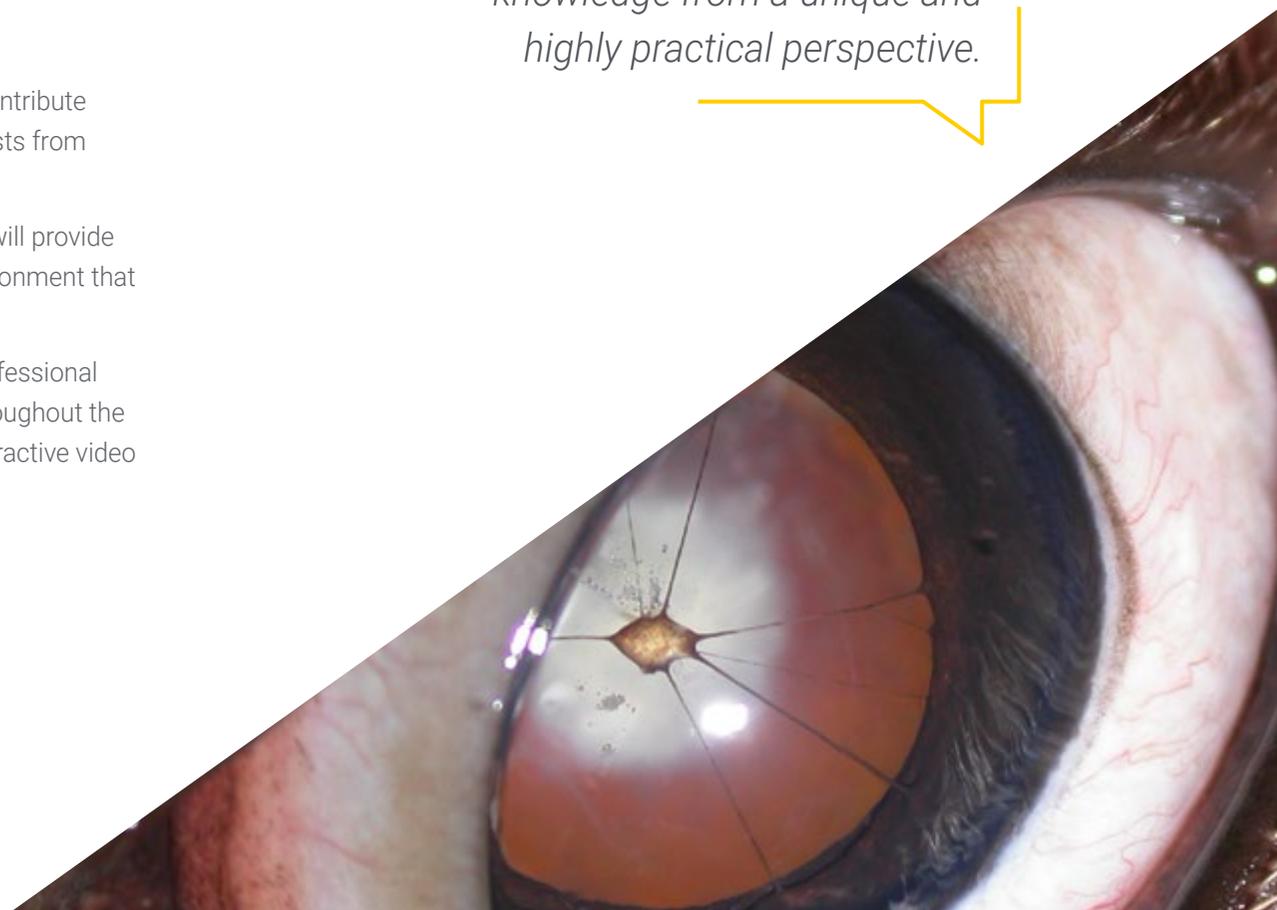
The program’s teaching staff includes professionals from the sector who contribute their work experience to this training program, as well as renowned specialists from leading societies and prestigious universities.

The multimedia content, developed with the latest educational technology, will provide the professional with situated and contextual learning, i.e., a simulated environment that will provide immersive learning programmed to train in real situations.

This program is designed around Problem-Based Learning, whereby the professional must try to solve the different professional practice situations that arise throughout the program. For this purpose, the student will be assisted by an innovative interactive video system created by renowned and experienced experts.

Applied surgical innovation in the field, explained clearly and precisely through a highly specialized learning process.

A program that will offer you knowledge from a unique and highly practical perspective.

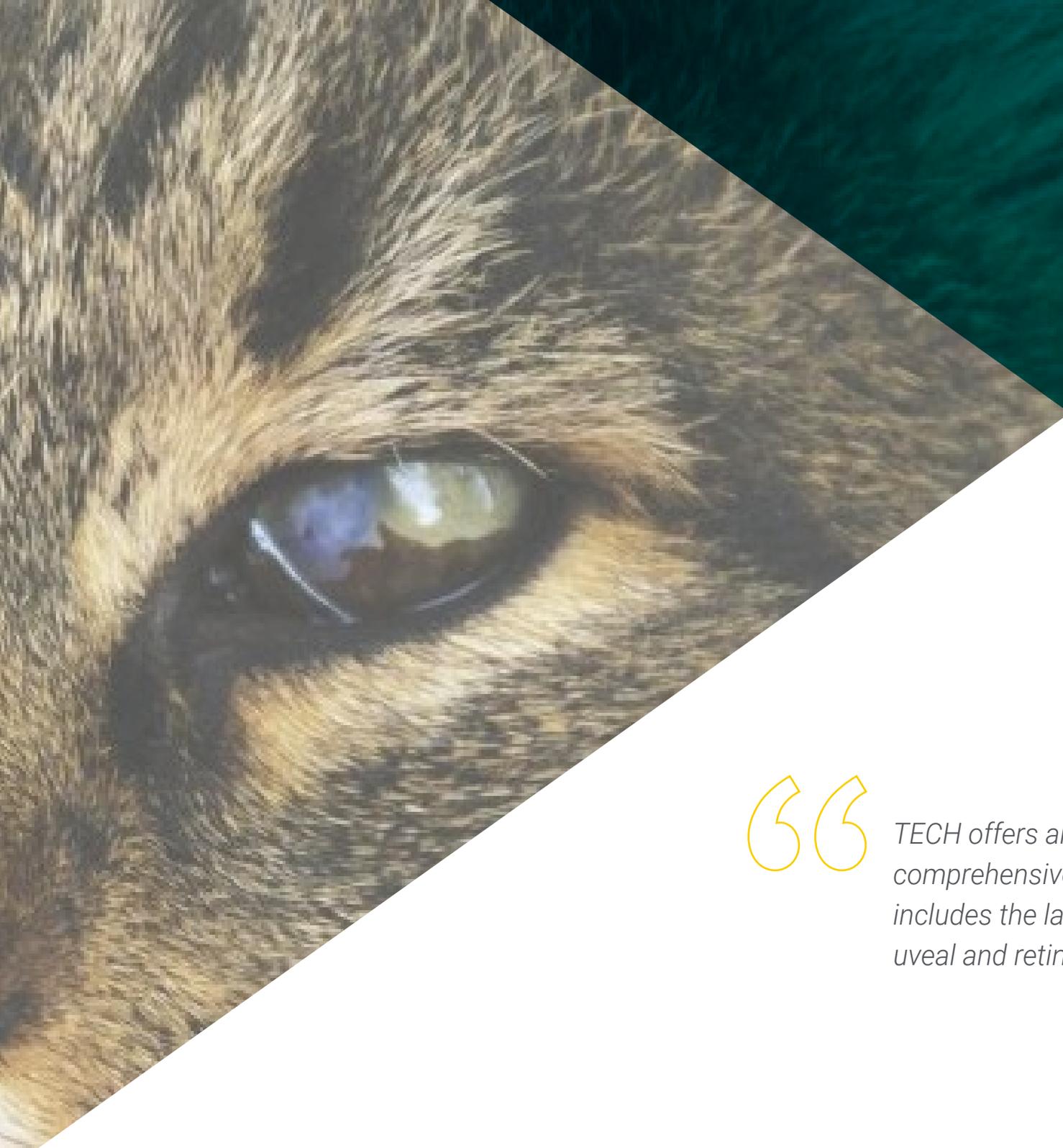


02

Objectives

TECH has designed the most comprehensive and up-to-date academic program on the market. After completing the 180 hours of study of the Postgraduate Certificate, professionals will be able to practice in this exciting field with total precision and from a perspective based on maximum scientific rigor, the most relevant studies and the latest advances.





“

TECH offers an intensive and comprehensive growth program that includes the latest developments in uveal and retinal surgery”

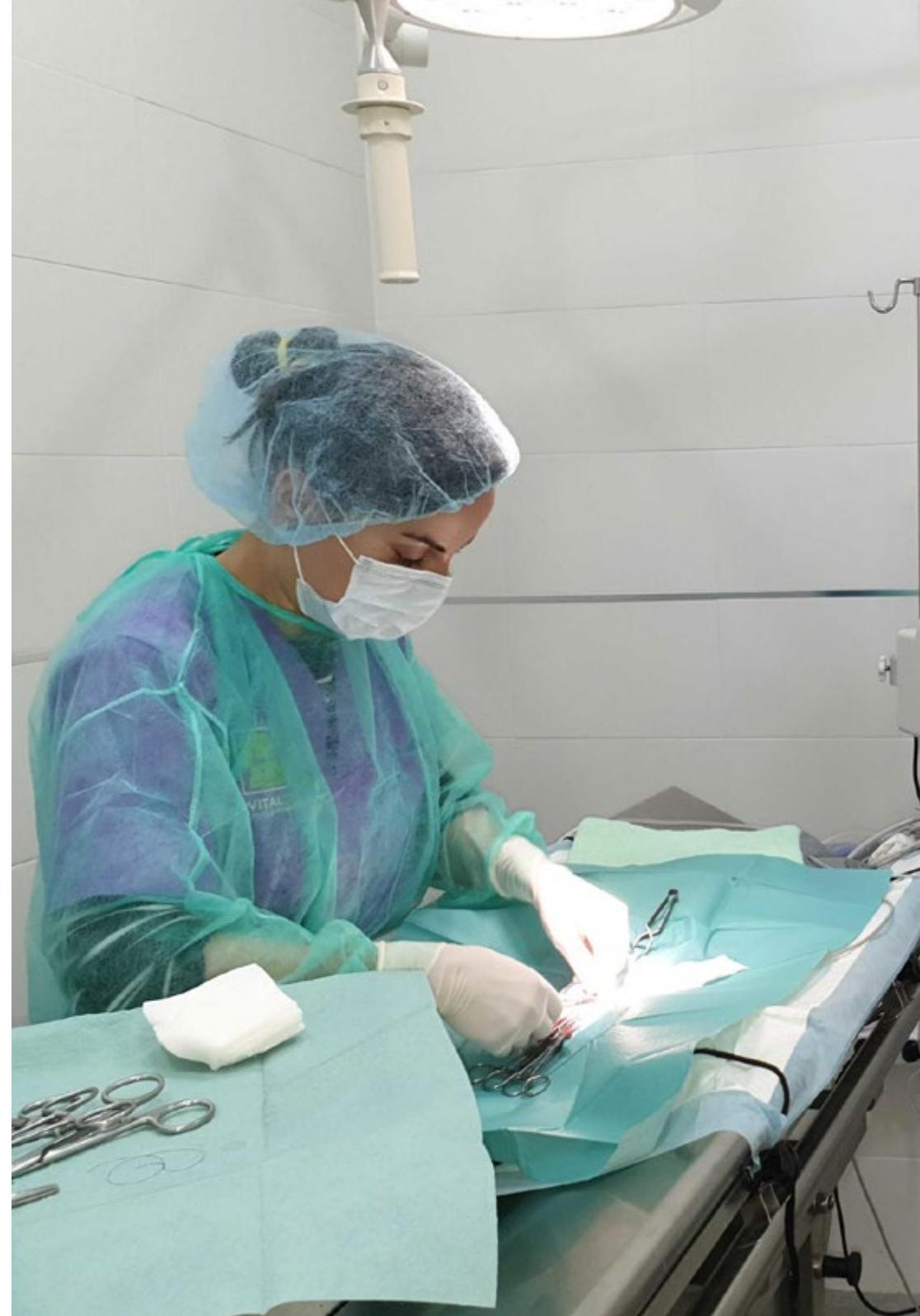


General Objectives

- Generate specialized knowledge of the structures that compose the anterior uvea in dogs and cats
- Establish correct examination of the anterior uvea
- Study classification of pathologies according to clinical signs
- Analyze differential diagnosis for patients with anterior uvea disorders
- Determine appropriate treatment for patients with anterior uvea disorders
- Arrive at an understanding of the variations of normality by examining the fundus in patients
- Perform a serial and methodical examination of the ocular fundus

“

Don't stay on the side lines of advancement in this field and offer your patients the most comprehensive and specialized care in uveal and retinal treatment"





Specific Objectives

- ◆ Determine the structures involved in uveal inflammation
- ◆ Analyze the involvement of systemic diseases and uveal involvement
- ◆ Develop a diagnostic plan based on uveal alterations observed in the patient
- ◆ Examine ophthalmologic examination for the diagnosis of anterior uveitis
- ◆ Explain how to localize the primary condition of uveal alterations
- ◆ Determine whether the disease is ophthalmologic or systemic
- ◆ Establish differential diagnoses according to clinical systemic and ocular signs
- ◆ Propose possible complementary tests according to the established differential diagnosis
- ◆ Present and establish a treatment plan for dealing with uveal disease in patients
- ◆ Establish a possible protocol for secondary retinal lesions caused by systemic conditions
- ◆ When presented with a blind eye, discern whether the problem is retinal or neurological

03

Course Management

With professionals in veterinary ophthalmology and online teaching, students will acquire solid knowledge and skills in this specialty. For this reason, this Postgraduate Certificate has a highly qualified team with extensive experience in the sector, which will offer the best possible resources for students in the development of their skills during the course. This way, veterinarians will have all that is required to specialize at an international level in a booming sector that will catapult them to professional success.



A close-up photograph of a horse's head, focusing on the eye and ear area. The horse has light brown, wavy hair. The eye is partially visible on the left, and the ear is in the foreground. The background is a dark teal color.

“

Study with professionals of recognized trajectory and take advantage of their close and adjusted vision of the reality of this sector"

International Guest Director

Dr. Caryn Plummer is a true international reference in the field of Veterinary Medicine. Her research interests include corneal wound healing, glaucoma and other aspects of clinical ophthalmology in animals. She has also developed different models of diseases that afflict the eyesight of pets.

The lectures of this expert are widely recognized and expected in the academic framework, developing many of these in the United States, the University of Copenhagen and other parts of the world. She is also a member of the School of Veterinary Medicine at the University of Florida.

Other lines in which this expert has completed her professional development are Pharmacology and the use of medical devices through administration and ocular penetration. In the same way, she has deepened her knowledge in Equine Corneal Disease, Primary Open Angle Glaucoma in the Dog and other immune-mediated pathologies. In turn, Plummer has ventured into the application of new surgical techniques for the healing of corneal wounds, facial reconstruction of animal eyelids and the prolapse of nictitating glands. On these topics he has published a large number of articles in leading journals such as Veterinary ophthalmology and American journal of veterinary research.

Dr. Plummer's professional development has also been intensive and regular. Her specialization in Veterinary Ophthalmology was developed at the University of Florida. She also completed her advanced education in Small Animal Medicine and Surgery at Michigan State University.

On the other hand, this scientist has received several awards, among them the Clinical Researcher of the Year Award, granted by the Florida Veterinary Medical Association. She is also the author of Gelatt's classic textbook Veterinary Ophthalmology and an associate editor.



Dr. Plummer, Caryn

- Research Fellow in Veterinary Ophthalmology at the University of Florida
- Veterinary Ophthalmologist specialized in Glaucoma and Corneal Disease in Small Animals.
- Founder and Secretary/Treasurer of the International Consortium for Equine Ophthalmology
- Treasurer of the Consortium for Animal Vision Foundation
- Author of the classic Gelatt textbook Veterinary Ophthalmology
- Diplomate of the American College of Veterinary Ophthalmology
- Residency in Comparative Ophthalmology at the University of Florida
- Practical Instruction in Veterinary Medicine at the University of Michigan
- BA degree from Yale University
- Member of the Florida Veterinary Medical Association

“

Thanks to TECH, you will be able to learn with the best professionals in the world”

Management



Dr. Fernández Más, Uxue

- ♦ Veterinary Ophthalmology in the IVO
- ♦ Responsible for Ophthalmology at Vidavet
- ♦ Bachelor's Degree in Veterinary from the University of Zaragoza
- ♦ Postgraduate in Ophthalmology Veterinary Medicine, Autonomous University of Barcelona
- ♦ Lecturer in Introductory Courses in Veterinary Ophthalmology for the Vidavet group
- ♦ Member of SEOVET and AVEPA Ophthalmology group
- ♦ Presentations at SEOVET, ECVO and GTA of AVEPA Congresses
- ♦ Junior Resident at Oftalvet Mexico



Professors

Dr. Torres Caballero, Maria Dolores

- ◆ Head of Ophthalmology Service in several veterinary hospitals, Barcelona
- ◆ Head of Ophthalmology Service, Veterinary Hospital Ars Veterinaria
- ◆ Degree in Veterinary Medicine from the University of Córdoba
- ◆ Experimental Microsurgery University Diploma, Paris VII
- ◆ Course of Advanced Studies in Veterinary Ophthalmology, Toulouse, France
- ◆ Teaching in veterinary ophthalmology specialization courses
- ◆ Presentation of training courses for general veterinarians in different locations in the Iberian Peninsula

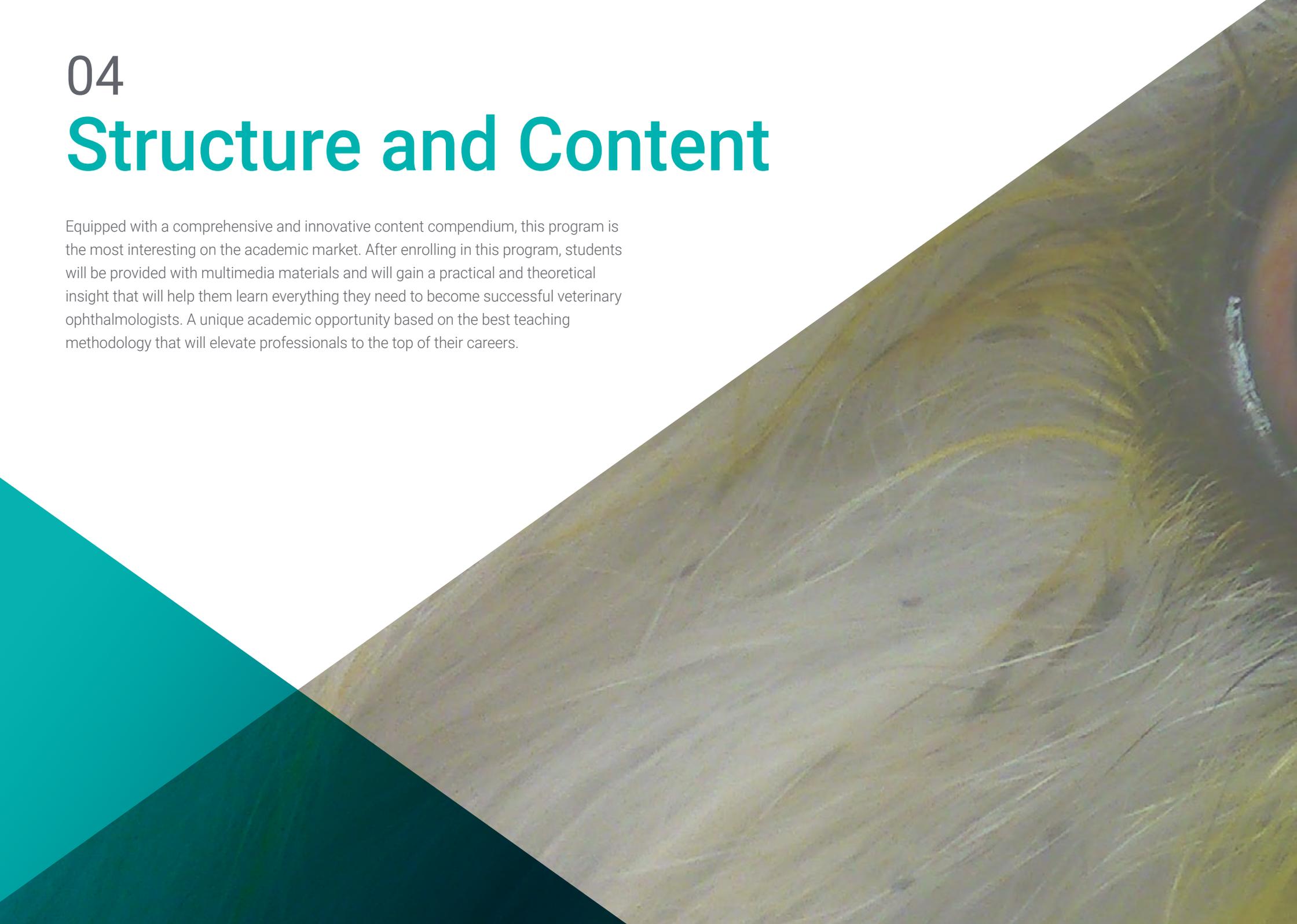
“

An impressive teaching staff, made up of professionals from different areas of expertise, will be your teachers during your training: a unique opportunity not to be missed”

04

Structure and Content

Equipped with a comprehensive and innovative content compendium, this program is the most interesting on the academic market. After enrolling in this program, students will be provided with multimedia materials and will gain a practical and theoretical insight that will help them learn everything they need to become successful veterinary ophthalmologists. A unique academic opportunity based on the best teaching methodology that will elevate professionals to the top of their careers.





“

A learning pathway of maximum interest for veterinarians who wish to enhance their care and professional competitiveness”

Module 1. Uveal and Retinal Diseases and Surgery

- 1.1. Uveal Embryology and Anatomy
 - 1.1.1. Embryology
 - 1.1.2. Anatomy
- 1.2. Congenital Disorders
 - 1.2.1. Heterochromia
 - 1.2.2. Colobomas
 - 1.2.3. Persistent Pupillary Membranes
 - 1.2.4. Discoria
- 1.3. Degenerative Disorders
 - 1.3.1. Iris Atrophy
 - 1.3.2. Iris Cysts
- 1.4. Uveal Inflammation
 - 1.4.1. Intraocular Causes
 - 1.4.2. Systemic Causes
- 1.5. Diagnosis and Clinical introduction
 - 1.5.1. Ophthalmologic Examination
 - 1.5.2. Neuro-Ophthalmology
- 1.6. Discoloration
 - 1.6.1. Benign
 - 1.6.2. Neoplasms
 - 1.6.2.1. Primary
 - 1.6.2.2. Metastatic
- 1.7. Specific Treatments Based on Cause
 - 1.7.1. Topical Treatments
 - 1.7.2. Systemic Adjuvant Therapy
 - 1.7.3. Specific Therapy by Etiology
 - 1.7.4. Sequelae Control





- 1.8. Variations in Ocular Fundus Normality
 - 1.8.1. Age
 - 1.8.2. Albinism
- 1.9. Retinal Disorders
 - 1.9.1. On Development
 - 1.9.2. Hereditary
 - 1.9.3. Storage Related
 - 1.9.4. Inflammatory (Causes)
 - 1.9.5. Various
 - 1.9.5.1. SARDs
 - 1.9.5.2. CAR
 - 1.9.5.3. Immune-Mediated Retinitis
 - 1.9.5.4. Uveodermatological Syndrome
 - 1.9.5.5. Nutritional
 - 1.9.5.6. Neoplasms
- 1.10. Medical Management vs. Surgical Retinal Lesions
 - 1.10.1 Types of Retinal Detachment
 - 1.10.2 Genetic Disorders

“*Each and every aspect the professional should know about uveal and retinal surgery and pathologies, analyzed in a Postgraduate Certificate that will have a great impact on your professional growth*”

05 Methodology

This academic program offers students a different way of learning. Our methodology uses a cyclical learning approach: **Relearning**.

This teaching system is used, for example, in the most prestigious medical schools in the world, and major publications such as the **New England Journal of Medicine** have considered it to be one of the most effective.





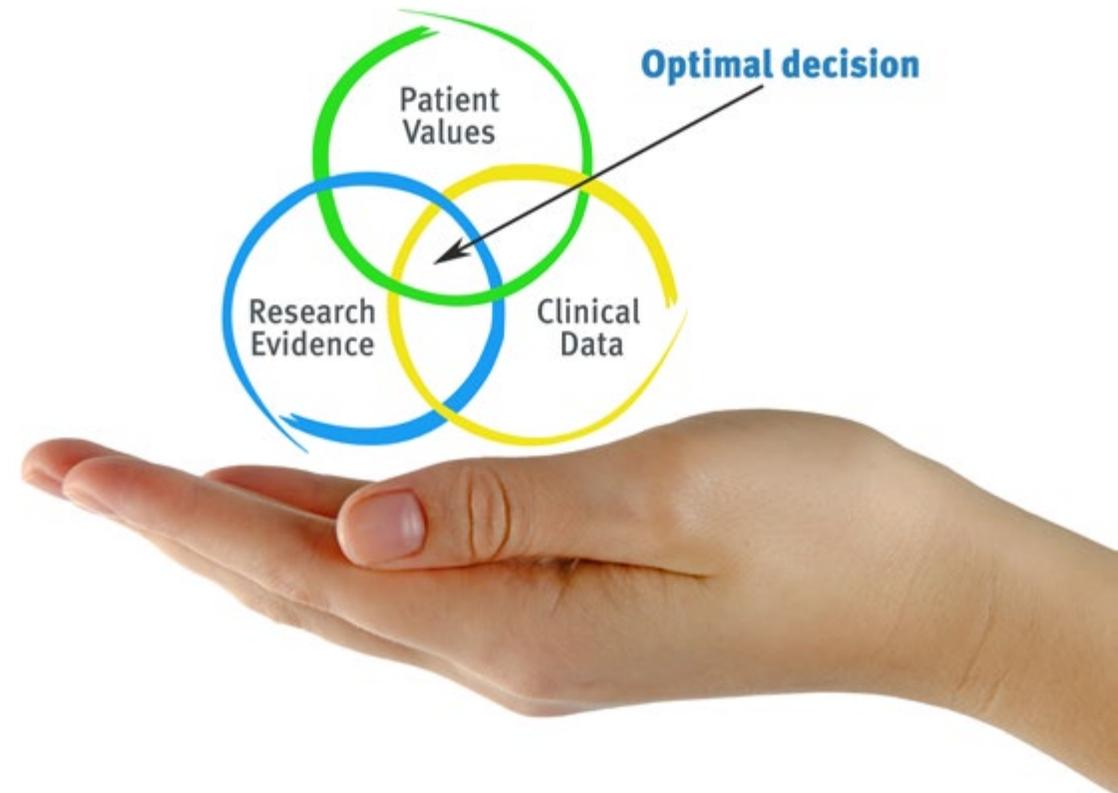
“

Discover Relearning, a system that abandons conventional linear learning, to take you through cyclical teaching systems: a way of learning that has proven to be extremely effective, especially in subjects that require memorization"

At TECH we use the Case Method

What should a professional do in a given situation? Throughout the program you will be presented with multiple simulated clinical cases based on real patients, where you will have to investigate, establish hypotheses and, finally, resolve the situation. There is an abundance of scientific evidence on the effectiveness of the method. Specialists learn better, faster, and more sustainably over time.

With TECH you will experience a way of learning that is shaking the foundations of traditional universities around the world.



According to Dr. Gérvas, the clinical case is the annotated presentation of a patient, or group of patients, which becomes a "case", an example or model that illustrates some peculiar clinical component, either because of its teaching power or because of its uniqueness or rarity. It is essential that the case is based on current professional life, in an attempt to recreate the actual conditions in a veterinarian's professional practice.

“

Did you know that this method was developed in 1912, at Harvard, for law students? The case method consisted of presenting students with real-life, complex situations for them to make decisions and justify their decisions on how to solve them. In 1924, Harvard adopted it as a standard teaching method”

The effectiveness of the method is justified by four fundamental achievements:

1. Veterinarians who follow this method not only manage to assimilate concepts, but also develop their mental capacity through exercises to evaluate real situations and knowledge application
2. Learning is solidly translated into practical skills that allow the student to better integrate into the real world.
3. Ideas and concepts are understood more efficiently, given that the example situations are based on real-life.
4. The feeling that the effort invested is effective becomes a very important motivation for veterinarians, which translates into a greater interest in learning and an increase in the time dedicated to working on the course.



Relearning Methodology

At TECH we enhance the case method with the best 100% online teaching methodology available: Relearning.

This university is the first in the world to combine the study of clinical cases with a 100% online learning system based on repetition, combining a minimum of 8 different elements in each lesson, a real revolution with respect to the mere study and analysis of cases.



Veterinarians will learn through real cases and by resolving complex situations in simulated learning environments. These simulations are developed using state-of-the-art software to facilitate immersive learning.

At the forefront of world teaching, the Relearning method has managed to improve the overall satisfaction levels of professionals who complete their studies, with respect to the quality indicators of the best online university (Columbia University).

With this methodology more than 65,000 veterinarians have been trained with unprecedented success in all clinical specialties, regardless of the surgical load. Our teaching method is developed in a highly demanding environment, where the students have a high socio-economic profile and an average age of 43.5 years.

Relearning will allow you to learn with less effort and better performance, involving you more in your training, developing a critical mindset, defending arguments, and contrasting opinions: a direct equation for success.

In our program, learning is not a linear process, but rather a spiral (learn, unlearn, forget, and re-learn). Therefore, we combine each of these elements concentrically.

The overall score obtained by TECH's learning system is 8.01, according to the highest international standards.



This program offers the best educational material, prepared with professionals in mind:



Study Material

All teaching material is produced by the specialists who teach the course, specifically for the course, so that the teaching content is highly specific and precise.

These contents are then applied to the audiovisual format, to create the TECH online working method. All this, with the latest techniques that offer high quality pieces in each and every one of the materials that are made available to the student.



Latest Techniques and Procedures on Video

TECH introduces students to the latest techniques, the latest educational advances and to the forefront of current and procedures of veterinary techniques. All of this in direct contact with students and explained in detail so as to aid their assimilation and understanding. And best of all, you can watch the videos as many times as you like.



Interactive Summaries

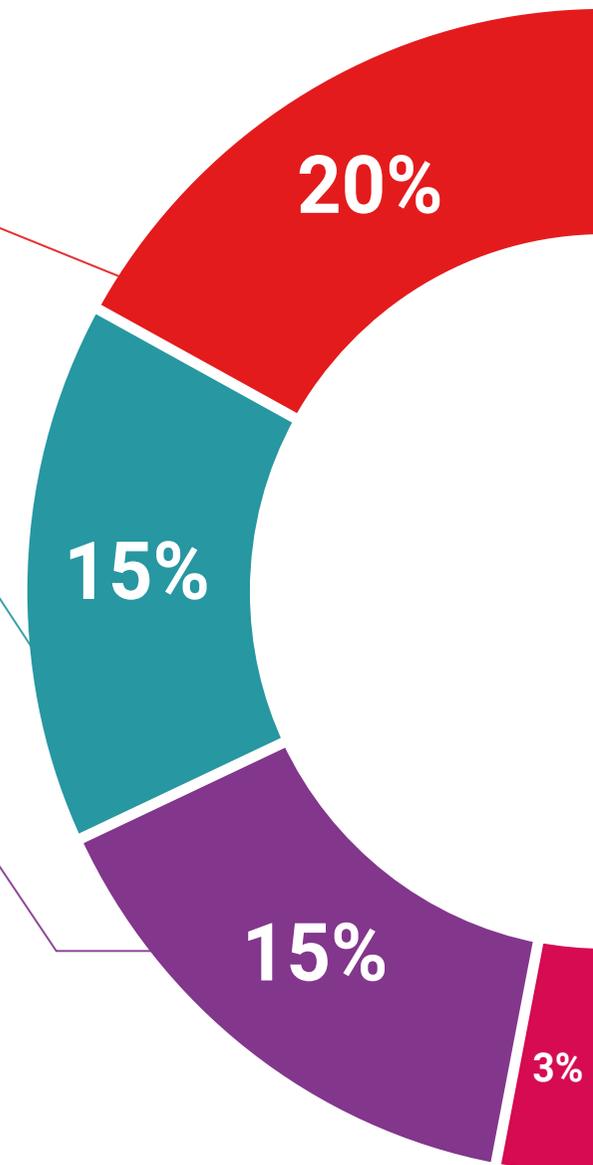
The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

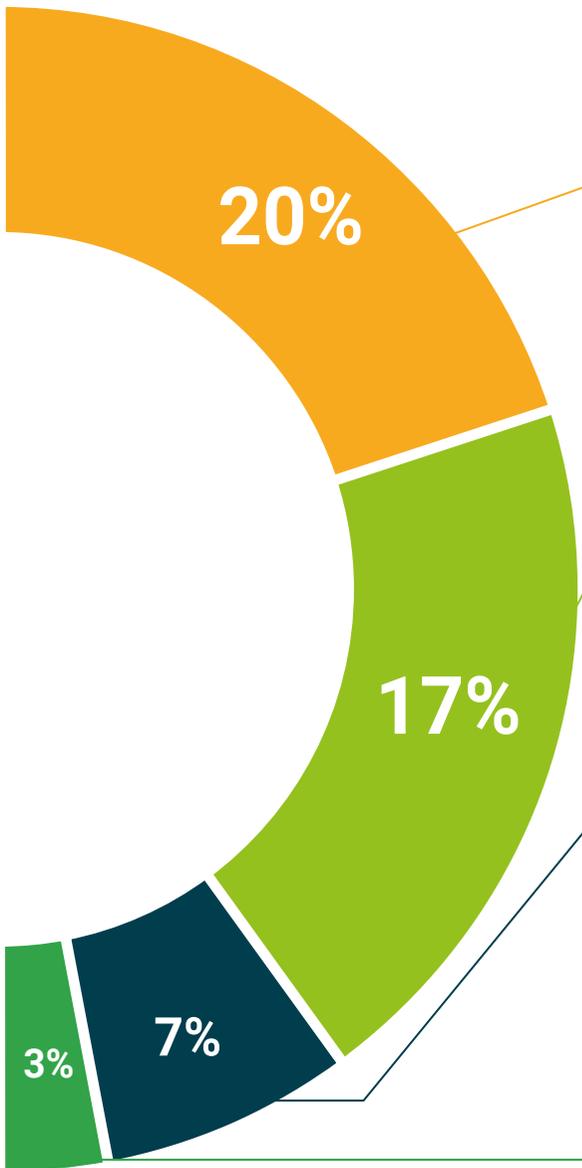
This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



Additional Reading

Recent articles, consensus documents and international guidelines, among others. In TECH's virtual library, students will have access to everything they need to complete their course.





Expert-Led Case Studies and Case Analysis

Effective learning ought to be contextual. Therefore, TECH presents real cases in which the expert will guide students, focusing on and solving the different situations: a clear and direct way to achieve the highest degree of understanding.



Testing & Retesting

We periodically evaluate and re-evaluate students' knowledge throughout the program, through assessment and self-assessment activities and exercises, so that they can see how they are achieving their goals.



Classes

There is scientific evidence suggesting that observing third-party experts can be useful.

Learning from an Expert strengthens knowledge and memory, and generates confidence in future difficult decisions.



Quick Action Guides

TECH offers the most relevant contents of the course in the form of worksheets or quick action guides. A synthetic, practical, and effective way to help students progress in their learning.



06

Certificate

The Postgraduate Certificate in Uveal and Retinal Diseases and Surgery in Small Animals guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate issued by TECH Global University.



“

Successfully complete this program and receive your university qualification without having to travel or fill out laborious paperwork”

This program will allow you to obtain your **Postgraduate Certificate in Uveal and Retinal Diseases and Surgery in Small Animals** endorsed by **TECH Global University**, the world's largest online university.

TECH Global University is an official European University publicly recognized by the Government of Andorra ([official bulletin](#)). Andorra is part of the European Higher Education Area (EHEA) since 2003. The EHEA is an initiative promoted by the European Union that aims to organize the international training framework and harmonize the higher education systems of the member countries of this space. The project promotes common values, the implementation of collaborative tools and strengthening its quality assurance mechanisms to enhance collaboration and mobility among students, researchers and academics.

This **TECH Global University** title is a European program of continuing education and professional updating that guarantees the acquisition of competencies in its area of knowledge, providing a high curricular value to the student who completes the program.

Title: **Postgraduate Certificate in Uveal and Retinal Diseases and Surgery in Small Animals**

Modality: **online**

Duration: **6 weeks**

Accreditation: **6 ECTS**



*Apostille Convention. In the event that the student wishes to have their paper diploma issued with an apostille, TECH Global University will make the necessary arrangements to obtain it, at an additional cost.

future
health confidence people
education information tutors
guarantee accreditation teaching
institutions technology learning
community commitment
personalized service innovation
knowledge present
development language
virtual classroom



Postgraduate Certificate Uveal and Retinal Diseases and Surgery in Small Animals

- » Modality: online
- » Duration: 6 weeks
- » Certificate: TECH Global University
- » Credits: 6 ECTS
- » Schedule: at your own pace
- » Exams: online

Postgraduate Certificate
Uveal and Retinal
Diseases and Surgery
in Small Animals

