

# Postgraduate Diploma

## Intraocular Disease Equine Ophthalmology





## Postgraduate Diploma Intraocular Disease Equine Ophthalmology

- » Modality: online
- » Duration: 6 months
- » Certificate: TECH Global University
- » Accreditation: 18 ECTS
- » Schedule: at your own pace
- » Exams: online

Website: [www.techtute.com/us/veterinary-medicine/postgraduate-diploma/postgraduate-diploma-intraocular-disease-equine-ophthalmology](http://www.techtute.com/us/veterinary-medicine/postgraduate-diploma/postgraduate-diploma-intraocular-disease-equine-ophthalmology)

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# 01

# Introduction

Equine Ophthalmology has undergone significant advances in recent decades, especially in the diagnosis and treatment of intraocular diseases. According to the American College of Veterinary Ophthalmologists (ACVO), these diseases are responsible for a considerable proportion of cases of vision loss in horses, with both clinical and economic implications. Motivated to provide the most outstanding concepts in this area, TECH has developed this postgraduate course which is presented as a unique opportunity to delve into a specialized field of vital importance for the ocular health of horses. This program, taught in 100% online mode and with fully updated content, will provide advanced knowledge on the management of complex conditions such as Uveitis, Cataracts and Glaucoma, among others.





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*Do you want to diagnose and treat pathologies that affect the vision and quality of life of horses? This 100% online program will be your impetus to meet your professional goals. Join TECH now!”*

Intraocular Disease Equine Ophthalmology is crucial for veterinarians, as it provides them with the necessary tools to detect these diseases early, apply effective treatments and improve the prognosis of affected horses. It also provides a comprehensive approach to address the specific needs of ophthalmology in horses, optimizing their recovery and ensuring their long-term visual health. In short, this specialty contributes to guaranteeing the visual health of equines, protecting their welfare and maximizing their productive and sporting capacity.

This TECH Postgraduate Diploma in Intraocular Disease Equine Ophthalmology offers a unique and specialized training that will benefit professionals interested in this outstanding discipline. Through high-quality, up-to-date content, the program provides students with the knowledge and skills necessary to effectively diagnose and treat equine intraocular diseases, a field that is constantly evolving and in high demand. The program not only provides training in diagnostic and treatment techniques, but also offers practical tools to work in a team with other specialists such as ophthalmologists and surgeons, in clinics or veterinary centers.

Upon completion of this program, specialists will acquire in-depth knowledge of complex ocular pathologies and will know how to apply innovative treatments that can make a difference in the health and performance of horses. With this approach, graduates will be prepared to identify early signs of diseases that may be difficult to detect, allowing them to intervene quickly and effectively, significantly improving the animals' quality of life and preventing long-term complications.

In addition, the 100% online modality offers a flexible and highly effective learning experience, designed to adapt to the needs of professionals who wish to specialize without compromising their work responsibilities. This, in turn, is complemented by the innovative Relearning methodology, a pedagogical approach that allows for more in-depth and long-lasting training.

This **Postgraduate Diploma in Intraocular Disease Equine Ophthalmology** contains the most complete and up-to-date scientific program on the market. The most important features include:

- ♦ The development of practical cases presented by experts with a deep mastery of Intraocular Disease Equine Ophthalmology
- ♦ The graphic, schematic and eminently practical contents with which it is conceived gather scientific and practical information on those disciplines that are indispensable for professional practice
- ♦ Practical exercises where the self-assessment process can be carried out 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



*The possibility of updating your knowledge from anywhere and accessing innovative and high quality content makes this postgraduate program the ideal option for your career development in Equine Ophthalmology”*

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*You will transform your veterinary career with this program. You'll know how to diagnose and treat intraocular disease in horses with the flexibility to train online. Jumpstart your professional future today!”*

The program's teaching staff includes professionals from the sector who contribute their work experience to this specializing 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 education programmed to learn 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 during the course. For this purpose, students will be assisted by an innovative interactive video system created by renowned experts.

*Equine eye health matters. Through the best teaching materials in the academic market, you will become an expert in equine ophthalmology and take your veterinary practice to the next level.*

*Are you passionate about Equine Ophthalmology? Specialize in intraocular diseases and jumpstart your career with this program. You will advance in your profession without letting go of your responsibilities.*



# 02 Syllabus

The curriculum will provide comprehensive and specialized knowledge, addressing the fundamentals of equine ocular management. Throughout the program, professionals will emphasize key topics that will allow them to excel in a field of growing relevance in veterinary medicine. Among the main topics are equine ocular anatomy and physiology, the specific structures of the equine eye, its function and the particularities that differentiate it from other species. You will also delve into clinical and imaging diagnosis, with emphasis on advanced technologies, such as ocular ultrasound and optical coherence tomography, among others.

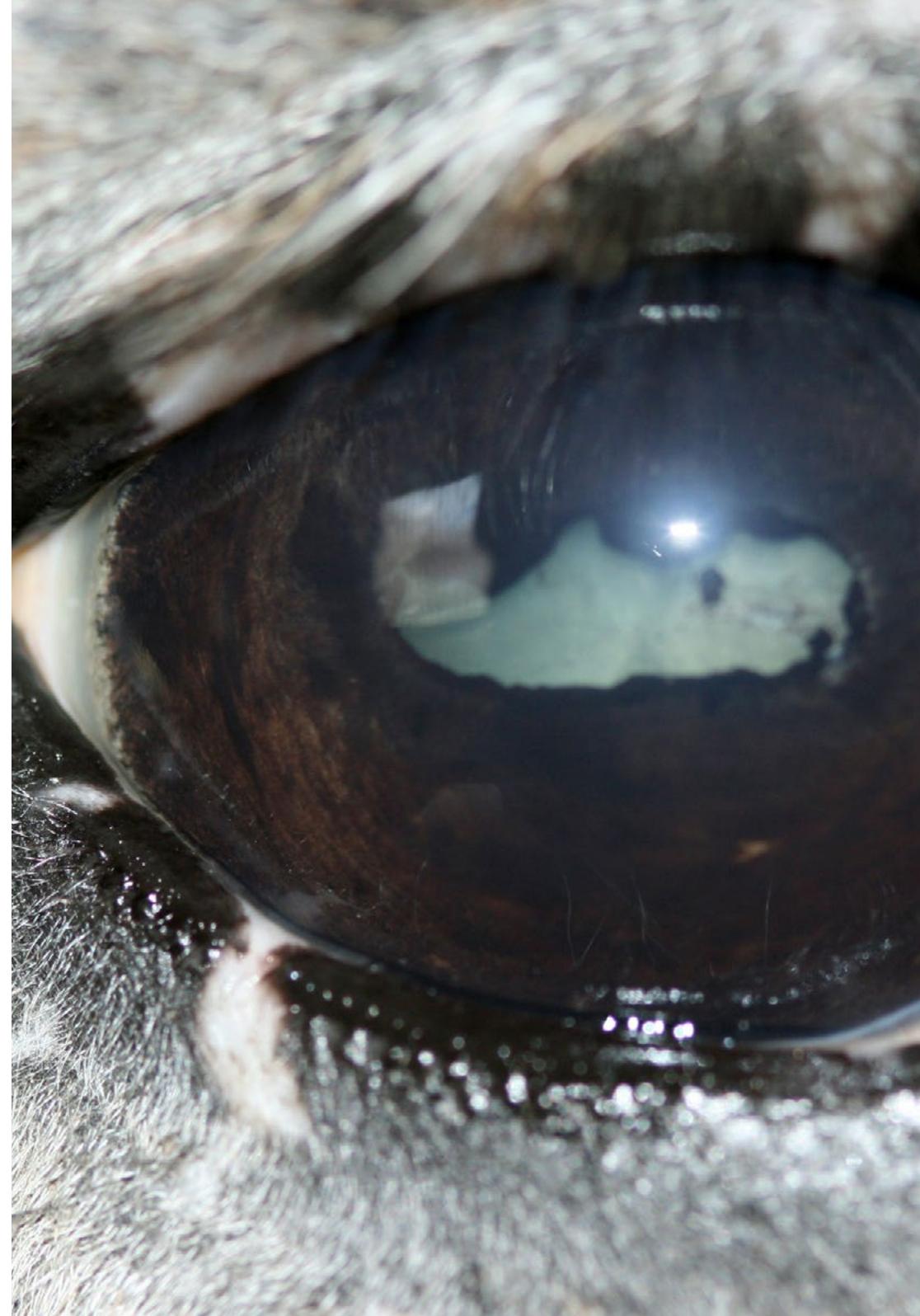


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*You will have at your disposal updated study material with which you will master equine ocular management and lead in a key field of veterinary medicine”*

## Module 1. Diseases and Surgery of the Anterior Uvea in Equids

- 1.1. Ocular Physiology and Exploration Applied to the Equine Anterior Uvea
  - 1.1.1. Anterior Uvea
  - 1.1.2. Physiology of the Anterior Uvea
    - 1.1.2.1. Formation of Aqueous Humor
    - 1.1.2.2. Accommodation of the Crystalline Lens
    - 1.1.2.3. Blood-Aqueous Barrier
  - 1.1.3. Ocular Examination Related to the Anterior Uvea
    - 1.1.3.1. Biomicroscopy
    - 1.1.3.2. Tonometry
    - 1.1.3.3. Ocular Ultrasound
- 1.2. Congenital and Developmental Abnormalities of the Anterior Uvea in Equids
  - 1.2.1. Embryonic Development of the Anterior Uvea
  - 1.2.2. Congenital Abnormalities
    - 1.2.2.1. Aniridia
    - 1.2.2.2. Iris Heterochromia
    - 1.2.2.3. Persistent Pupillary Membranes
    - 1.2.2.4. Hypoplasia vs. Coloboma
    - 1.2.2.5. Peter's Anomaly
    - 1.2.2.6. Uveal Cysts
  - 1.2.3. Rocky Mountain Multiple Congenital Anomalies Syndrome
- 1.3. Inflammatory Diseases of the Uvea in Equids
  - 1.3.1. Inflammatory Diseases of the Uvea
  - 1.3.2. Clinical Signs of Acute Anterior Uveitis
  - 1.3.3. Differential Diagnosis of Acute Anterior Uveitis
- 1.4. Inflammatory Diseases of the Uvea in Equids. Protocol, Treatment and Sequelae
  - 1.4.1. Diagnostic Protocol of Acute Anterior Uveitis
  - 1.4.2. Medical Treatment of Acute Anterior Uveitis
  - 1.4.3. Sequelae of Acute Anterior Uveitis: When Uveitis Becomes Chronic



- 1.5. Equine Recurrent Uveitis (ERU)
  - 1.5.1. Significance of Equine Recurrent Uveitis (ERU)
  - 1.5.2. ERU Classification
    - 1.5.2.1. Classical Presentation
    - 1.5.2.2. Insidious Presentation
    - 1.5.2.3. Posterior Presentation
- 1.6. Equine Recurrent Uveitis (ERU). Pathophysiology and Histopathology
  - 1.6.1. Pathophysiology and Histopathology of Equine Recurrent Uveitis (ERU)
  - 1.6.2. Pathophysiology of ERU
  - 1.6.3. Histopathology in ERU
- 1.7. Equine Recurrent Uveitis (ERU). Treatment and Prognosis
  - 1.7.1. Medical Treatment of ERU
  - 1.7.2. Surgical Treatment of ERU
  - 1.7.3. Prognosis of ERU
- 1.8. Equine Heterochromic Iridocyclitis with Secondary Keratitis (HIK)
  - 1.8.1. Clinical Signs of HIK
  - 1.8.2. Pathophysiology of HIK
  - 1.8.3. Treatment of HIK
  - 1.8.4. Prognosis of HIK
- 1.9. Uveal Trauma in Equids
  - 1.9.1. Clinical Signs
  - 1.9.2. Pathophysiology of Acute Trauma
  - 1.9.3. Medical Treatment of Uveal Trauma
  - 1.9.4. Prognosis of Uveal Trauma
- 1.10. Neoplastic Diseases of the Equine Uvea
  - 1.10.1. Primary Tumors of the Neuroectoderm
  - 1.10.2. Melanocytic Tumors
  - 1.10.3. Non-Melanocytic Tumors
  - 1.10.4. Metastatic Tumors

## Module 2. Diseases and Surgery of the Crystalline Lens in Equids

- 2.1. Embryology of the Crystalline Lens in Equids
  - 2.1.1. Embryology of the Crystalline Lens in Equids
  - 2.1.2. Histology of the Lens
  - 2.1.3. Alterations in Lenticular Development
- 2.2. Physiology of the Crystalline Lens in Equids
  - 2.2.1. Metabolism of the Crystalline Lens
  - 2.2.2. Alterations in Crystalline Lens Metabolism
  - 2.2.3. Transparency and Refraction of the Lens
- 2.3. Examination of the Crystalline Lens in Equids
  - 2.3.1. Limits of Examinations in the Field
  - 2.3.2. Pupillary Dilation, Pharmacology of Iris Dilators and Cycloplegics
  - 2.3.3. Slit-Lamp Evaluation of the Lens
  - 2.3.4. Lens Dilation with Direct Use of Retroillumination
  - 2.3.5. Peculiarities of the Examinations in Newborns
- 2.4. Alterations of Lenticular Transparency in Equids
  - 2.4.1. Congenital Disorders
  - 2.4.2. Hereditary Disorders
  - 2.4.3. Acquired Disorders
- 2.5. Alterations of Lenticular Transparency in Equids: Cataracts
  - 2.5.1. Extralenticular
  - 2.5.2. Capsulolenticulars
  - 2.5.3. Lenticulars
    - 2.5.3.1. Focal Cataracts
    - 2.5.3.2. Suture Line Cataracts
    - 2.5.3.3. Axial Cataracts
    - 2.5.3.4. Traumatic Cataracts
    - 2.5.3.5. Complete Cataracts

- 2.6. Anatomical Alterations of the Crystalline Lens, Dislocation and Subluxation of the Lens in Equids
  - 2.6.1. Congenital Disorders
  - 2.6.2. Hereditary Disorders
  - 2.6.3. Acquired Disorders
- 2.7. Other Lenticular Changes in Equids
  - 2.7.1. Rupture of the Lenticular Capsule
  - 2.7.2. Anterior Subcapsular Vacuoles
  - 2.7.3. Concentric Cortical Lamination
  - 2.7.4. Age-Associated Physiological Findings
  - 2.7.5. Evaluation of Lesions during Pre-Purchase Examination
- 2.8. Cataract Surgery in Equids
  - 2.8.1. Indications
  - 2.8.2. Previous Diagnostic Tests
  - 2.8.3. Surgical Procedure
  - 2.8.4. Complications
  - 2.8.5. Post Surgical Management
- 2.9. Anterior Lens Luxation Surgery in Equids
  - 2.9.1. Indications
  - 2.9.2. Surgical Procedure
  - 2.9.3. Complications and Post Surgical Management
- 2.10. Medical Management of Patients with Non-Operable Cataracts in Equids
  - 2.10.1. Phacolytic Uveitis
  - 2.10.2. Glaucoma Secondary to Cataracts
  - 2.10.3. Pharmacology of Phacolytic Uveitis

### Module 3. Diseases and Surgery of the Vitreous and Retina in Equids

- 3.1. Physiology of the Vitreous and Retina in Equids
  - 3.1.1. Retina and Vitreous
  - 3.1.2. Optic Nerve
  - 3.1.3. Vascularization of the Posterior Segment
  - 3.1.4. Vitreous Structure
  - 3.1.5. The Choroid
- 3.2. Diagnostic Methods of the Posterior Segment in Equids
  - 3.2.1. Slit-Lamp Exam
  - 3.2.2. Direct and Indirect Ophthalmoscopy
  - 3.2.3. Retinography
  - 3.2.4. Fluorescein Angiography
  - 3.2.5. Ocular Ultrasonography to Evaluate the Vitreous and Retina
  - 3.2.6. Optical Coherence Tomography (OCT)
  - 3.2.7. Computerized Axial Tomography (CAT), Magnetic Resonance Imaging (MRI)
  - 3.2.8. Ocular Electrophysiology Studies. Electroretinography, Visual Evoked Potentials
- 3.3. Congenital Diseases of the Posterior Segment in Equids
  - 3.3.1. Retinal Dysplasia
  - 3.3.2. Colobomas of the Retina and Optic Nerve
  - 3.3.3. Persistence of the Hyaloid Artery
  - 3.3.4. Subretinal Hemorrhages in Newborns
  - 3.3.5. Congenital Retinal Detachment
  - 3.3.6. Congenital Stationary Night Blindness (CSNB)
  - 3.3.7. Anterior Segment Dysgenesis and Its Relationship to Posterior Segment Anomalies

- 3.4. Chorioretinitis and Retinal Detachment in Equines
  - 3.4.1. Chorioretinitis: Causes, Diagnosis and Treatment
  - 3.4.2. Retinal Detachment: Types, Diagnosis and Therapeutic Options
  - 3.4.3. Changes Associated with Equine Recurrent Uveitis (ERU)
  - 3.4.4. Chorioretinitis and Detachment Sequelae
- 3.5. Retinal and Vitreous Degenerations in Equids
  - 3.5.1. Age-Related Retinal Degeneration (Senile Retinopathy)
  - 3.5.2. Retinal Degeneration Associated with ERU
  - 3.5.3. Retinal Degeneration due to Nutritional Deficiencies
  - 3.5.4. Retinal Degeneration Associated with Equine Motor Neurone Disease
  - 3.5.5. Degenerative Changes Associated with Systemic Diseases
  - 3.5.6. Vitreous Degeneration in Geriatric Horses
  - 3.5.7. Photoc Head Shaking and Its Possible Relationship to the Retina
- 3.6. Inflammatory Diseases of the Posterior Segment and Vitreous in Equids
  - 3.6.1. Chorioretinitis: Causes and Diagnosis
  - 3.6.2. Vitritis: Causes, Diagnosis and Treatment
  - 3.6.3. Inflammatory Optic Neuritis
  - 3.6.4. Chorioretinal Inflammation in Equine Recurrent Uveitis (ERU)
  - 3.6.5. Inflammatory Changes of the Vitreous
- 3.7. Traumatic Injuries and Neoplasms of the Posterior Segment in Equids
  - 3.7.1. Diagnosis of Trauma in the Posterior Segment
  - 3.7.2. Post-Traumatic Retinal Detachment
  - 3.7.3. Evaluation of Intraocular Hemorrhages
  - 3.7.4. Diagnosis and Treatment of Ocular Rupture
  - 3.7.5. Neoplasms of the Posterior Segment
- 3.8. Optic Nerve Diseases in Equids
  - 3.8.1. Optic Neuropathies in Equids
  - 3.8.2. Exudative Optic Neuritis
  - 3.8.3. Optic Neuritis
  - 3.8.4. Atrophy of the Optic Nerve
  - 3.8.5. Proliferative Optic Neuropathy
  - 3.8.6. Ischemic Optic Neuropathy
  - 3.8.7. Traumatic Optic Neuropathy
- 3.9. Hereditary Diseases of the Posterior Segment in Equids
  - 3.9.1. Hereditary Retinal Diseases
  - 3.9.2. Hereditary Disorders of the Vitreous
  - 3.9.3. Diagnosis and Prevention of Hereditary Disorders
- 3.10. Management of Blind Horses
  - 3.10.1. Adaptation of Blind Horses
  - 3.10.2. Training and Rehabilitation Techniques
  - 3.10.3. Specific Care and Safety for Horses with Loss of Vision



*Do you want to face the challenges of equine ophthalmology with confidence? This syllabus will give you a competitive edge, positioning you as a reference in your area of expertise”*

03

# Teaching Objectives

This Postgraduate Diploma will prepare highly trained professionals in the diagnosis, treatment and management of equine ocular pathologies. Through a comprehensive approach, they will develop skills to identify and treat complex intraocular diseases such as Glaucoma or Equine Recurrent Uveitis, conditions that require specialized and precise management. Therefore, graduates will learn to use advanced diagnostic tools, such as ocular ultrasound and optical coherence tomography, essential to detect alterations with greater precision and anticipate possible complications.



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*TECH is supported by an innovative online methodology and results-oriented Relearning, which will allow you to reach your maximum potential and excel in Equine Ophthalmology”*



## General Objectives

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- ♦ Master the anatomical and physiological basis of the equine ocular system for a comprehensive understanding of its function
- ♦ Accurately identify the main intraocular diseases affecting horses
- ♦ Apply advanced diagnostic techniques, such as ocular ultrasonography and optical coherence tomography
- ♦ Design effective treatment plans for pathologies such as glaucoma and equine recurrent uveitis
- ♦ Develop skills in surgical procedures specific to the equine ophthalmologic field
- ♦ Implement preventive protocols to minimize the impact of environmental and genetic factors on ocular health
- ♦ Analyze complex clinical cases to formulate personalized therapeutic strategies
- ♦ Consolidate competencies to lead research and management projects in equine ophthalmology



*With a 99% guarantee of employability, TECH ensures you maximize your career opportunities in Equine Ophthalmology upon completion of this comprehensive program”*





## Specific Objectives

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### Module 1. Diseases and Surgery in the Anterior Uvea in Equids

- ◆ Diagnose inflammatory and degenerative diseases of the anterior uvea in equids
- ◆ Evaluate medical and surgical treatments for pathologies of the anterior uvea
- ◆ Apply advanced diagnostic techniques to assess the health of the anterior uvea
- ◆ Design comprehensive therapeutic plans for the management of uveitis in equids

### Module 2. Diseases and Surgery in the Crystalline Lens in Equids

- ◆ Recognize lens pathologies such as cataracts and dislocations in equine patients
- ◆ Evaluate innovative surgical procedures to treat diseases of the lens of the eye
- ◆ Implement effective diagnostic and therapeutic protocols for lens disorders
- ◆ Analyze risk factors associated with lens disease in equids

### Module 3. Diseases and Surgery of the Vitreous and Retina in Equids

- ◆ Identify pathologies of the vitreous and retina that affect vision in equids
- ◆ Design diagnostic strategies to evaluate ocular fundus diseases in equids
- ◆ Evaluate advanced surgical techniques to treat lesions of the vitreous and retina
- ◆ Implement treatment plans for retinal conditions in equids

# 04

# Career Opportunities

This program opens the doors to a world of professional opportunities in one of the most specialized areas of veterinary medicine. Upon completion, graduates will be prepared to work as specialists in veterinary clinics, equine hospitals and high performance centers, where intraocular pathologies are a constant concern. In addition, they will be able to lead innovative research in the field of Equine Ophthalmology, contribute to advances in treatments and be part of consultation teams specialized in equine ocular health. Career opportunities are not only limited to direct care, but also include research and training roles.





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*With solid and specific training, this program will propel you to advance in a highly-specialized field, ensuring a successful career with multiple career-enhancement opportunities”*

### Graduate Profile

The graduate will be a highly trained professional specialized in the diagnosis and treatment of complex ocular diseases in horses. With a comprehensive and updated approach, the professional will have the necessary knowledge and skills to identify, evaluate and manage the main intraocular pathologies affecting equines, from early diagnosis to advanced surgical interventions. In addition, you will be able to apply state-of-the-art diagnostic techniques, such as ocular ultrasound and optical coherence tomography, to address complex clinical cases.

*Your professional profile will be ready to excel in the competitive field of Equine Veterinary Medicine, making a significant difference in equine eye health.*

- ♦ **Critical Analysis Skills:** Develop the ability to evaluate complex clinical cases, interpreting data and accurately diagnosing intraocular disease in horses.
- ♦ **Teamwork Skills:** Foster collaboration with other equine health professionals, forming multidisciplinary teams to provide comprehensive and personalized treatments.
- ♦ **Effective Communication:** Improve the ability to clearly and accurately communicate diagnoses, treatments, and advances to horse owners and veterinary colleagues
- ♦ **Applied Research:** Acquire skills in the research of new techniques and treatments in Equine Ophthalmology, contributing to the advancement of the field through innovative studies.



After completing the program, you will be able to use your knowledge and skills in the following positions:

- 1. Veterinarian Specialized in Equine Ophthalmology:** In charge of the diagnosis, treatment and management of ocular diseases in horses, using advanced techniques to resolve intraocular pathologies.  
**Responsibilities:** Diagnose and treat ocular diseases in horses, using advanced techniques to address complex intraocular pathologies.
- 2. Equine Ophthalmic Surgeon:** Performs specialized surgical interventions on equine eyes, resolving complex intraocular disease cases with precision.  
**Responsibilities:** Perform surgical interventions on the equine eye, managing intraocular complications with precision and care.
- 3. Equine Ocular Health Consultant:** Provides expert advice to veterinary clinics and hospitals on the management of ocular pathologies in horses.  
**Responsibilities:** Advise veterinary clinics and hospitals in the diagnosis and treatment of equine ocular diseases, offering specialized recommendations.
- 4. Researcher in Equine Ophthalmology:** Develops and contributes to scientific studies focused on new diagnostic and treatment techniques for ocular diseases in horses.  
**Responsibilities:** Conduct research to advance knowledge of equine ocular diseases and develop new treatments and technologies.
- 5. Director of Specialized Veterinary Clinic:** Manages a clinic focused on equine eye care, leading teams and providing innovative solutions in ophthalmology.  
**Responsibilities:** Oversee the operation of an equine ophthalmology clinic, managing teams and ensuring quality care for equine patients.
- 6. Equine Ocular Rehabilitation Specialist:** Works in the recovery and post-surgical treatment of intraocular disease, designing rehabilitation plans tailored to the needs of the horse.  
**Responsibilities:** Design and implement post-surgical ocular rehabilitation plans, optimizing the recovery of horses after ophthalmologic interventions.

**7. Equine Ophthalmology Consultant:** Provides training to other veterinarians and equine health professionals on the latest techniques and advances in the treatment of ocular diseases.

**Responsibilities:** Provide training to veterinarians and equine health professionals on the latest techniques and advances in the treatment of eye diseases.

**8. Head of Equine Eye Health Research and Development:** Develops innovative products and technologies to improve the diagnosis and treatment of equine eye diseases in research centers or companies in the industry.

**Responsibilities:** Develop and test new technologies and treatments to improve the diagnosis and treatment of eye diseases in horses.

### Academic and Research Opportunities

In addition to all the jobs you will be qualified for by studying this TECH Postgraduate Diploma, you will also be able to continue with a solid academic and research career. After completing this university program, you will be ready to continue your studies associated with this field of knowledge and thus progressively achieve other scientific merits.

05

# Study Methodology

TECH is the world's first university to combine the **case study** methodology with **Relearning**, a 100% online learning system based on guided repetition.

This disruptive pedagogical strategy has been conceived to offer professionals the opportunity to update their knowledge and develop their skills in an intensive and rigorous way. A learning model that places students at the center of the educational process giving them the leading role, adapting to their needs and leaving aside more conventional methodologies.



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*TECH will prepare you to face new challenges in uncertain environments and achieve success in your career”*

## The student: the priority of all TECH programs

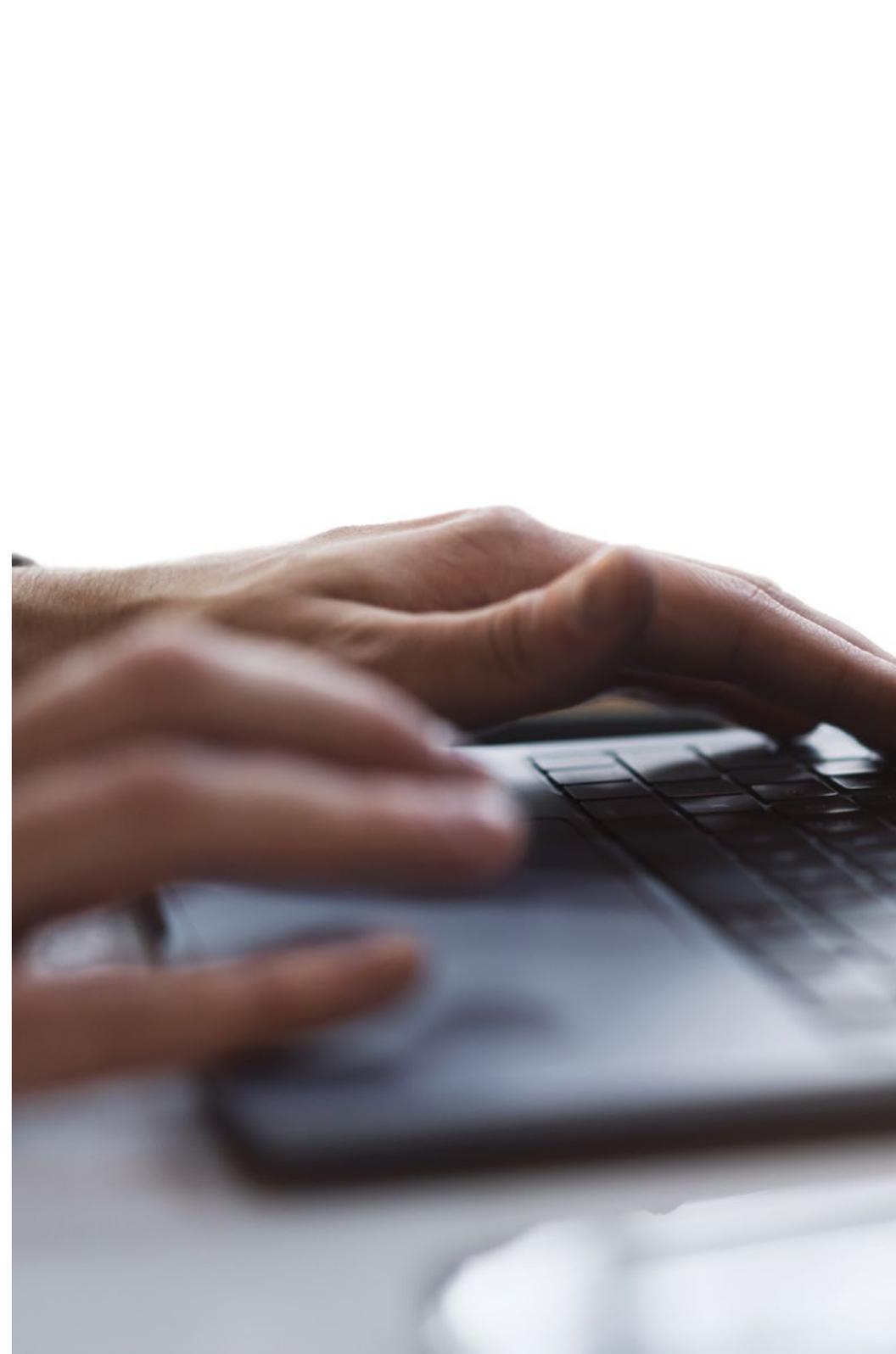
In TECH's study methodology, the student is the main protagonist.

The teaching tools of each program have been selected taking into account the demands of time, availability and academic rigor that, today, not only students demand but also the most competitive positions in the market.

With TECH's asynchronous educational model, it is students who choose the time they dedicate to study, how they decide to establish their routines, and all this from the comfort of the electronic device of their choice. The student will not have to participate in live classes, which in many cases they will not be able to attend. The learning activities will be done when it is convenient for them. They can always decide when and from where they want to study.

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*At TECH you will NOT have live classes  
(which you might not be able to attend)”*



### The most comprehensive study plans at the international level

TECH is distinguished by offering the most complete academic itineraries on the university scene. This comprehensiveness is achieved through the creation of syllabi that not only cover the essential knowledge, but also the most recent innovations in each area.

By being constantly up to date, these programs allow students to keep up with market changes and acquire the skills most valued by employers. In this way, those who complete their studies at TECH receive a comprehensive education that provides them with a notable competitive advantage to further their careers.

And what's more, they will be able to do so from any device, pc, tablet or smartphone.

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*TECH's model is asynchronous, so it allows you to study with your pc, tablet or your smartphone wherever you want, whenever you want and for as long as you want”*

## Case Studies and Case Method

The case method has been the learning system most used by the world's best business schools. Developed in 1912 so that law students would not only learn the law based on theoretical content, its function was also to present them with real complex situations. In this way, they could make informed decisions and value judgments about how to resolve them. In 1924, Harvard adopted it as a standard teaching method.

With this teaching model, it is students themselves who build their professional competence through strategies such as Learning by Doing or Design Thinking, used by other renowned institutions such as Yale or Stanford.

This action-oriented method will be applied throughout the entire academic itinerary that the student undertakes with TECH. Students will be confronted with multiple real-life situations and will have to integrate knowledge, research, discuss and defend their ideas and decisions. All this with the premise of answering the question of how they would act when facing specific events of complexity in their daily work.



## Relearning Methodology

At TECH, case studies are enhanced with the best 100% online teaching method: Relearning.

This method breaks with traditional teaching techniques to put the student at the center of the equation, providing the best content in different formats. In this way, it manages to review and reiterate the key concepts of each subject and learn to apply them in a real context.

In the same line, and according to multiple scientific researches, reiteration is the best way to learn. For this reason, TECH offers between 8 and 16 repetitions of each key concept within the same lesson, presented in a different way, with the objective of ensuring that the knowledge is completely consolidated during the study process.

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



## A 100% online Virtual Campus with the best teaching resources

In order to apply its methodology effectively, TECH focuses on providing graduates with teaching materials in different formats: texts, interactive videos, illustrations and knowledge maps, among others. All of them are designed by qualified teachers who focus their work on combining real cases with the resolution of complex situations through simulation, the study of contexts applied to each professional career and learning based on repetition, through audios, presentations, animations, images, etc.

The latest scientific evidence in the field of Neuroscience points to the importance of taking into account the place and context where the content is accessed before starting a new learning process. Being able to adjust these variables in a personalized way helps people to remember and store knowledge in the hippocampus to retain it in the long term. This is a model called Neurocognitive context-dependent e-learning that is consciously applied in this university qualification.

In order to facilitate tutor-student contact as much as possible, you will have a wide range of communication possibilities, both in real time and delayed (internal messaging, telephone answering service, email contact with the technical secretary, chat and videoconferences).

Likewise, this very complete Virtual Campus will allow TECH students to organize their study schedules according to their personal availability or work obligations. In this way, they will have global control of the academic content and teaching tools, based on their fast-paced professional update.



*The online study mode of this program will allow you to organize your time and learning pace, adapting it to your schedule”*

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

1. Students who follow this method not only achieve the assimilation of concepts, but also a development of their mental capacity, through exercises that assess real situations and the application of knowledge.
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. Students like to feel that the effort they put into their studies is worthwhile. This then translates into a greater interest in learning and more time dedicated to working on the course.

## The university methodology top-rated by its students

The results of this innovative teaching model can be seen in the overall satisfaction levels of TECH graduates.

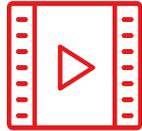
The students' assessment of the teaching quality, the quality of the materials, the structure of the program and its objectives is excellent. Not surprisingly, the institution became the top-rated university by its students according to the global score index, obtaining a 4.9 out of 5.

*Access the study contents from any device with an Internet connection (computer, tablet, smartphone) thanks to the fact that TECH is at the forefront of technology and teaching.*

*You will be able to learn with the advantages that come with having access to simulated learning environments and the learning by observation approach, that is, Learning from an expert.*



As such, the best educational materials, thoroughly prepared, will be available in this program:



#### 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.

This content is then adapted in an audiovisual format that will create our way of working online, with the latest techniques that allow us to offer you high quality in all of the material that we provide you with.



#### Practicing Skills and Abilities

You will carry out activities to develop specific competencies and skills in each thematic field. Exercises and activities to acquire and develop the skills and abilities that a specialist needs to develop within the framework of the globalization we live in.



#### Interactive Summaries

We present the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

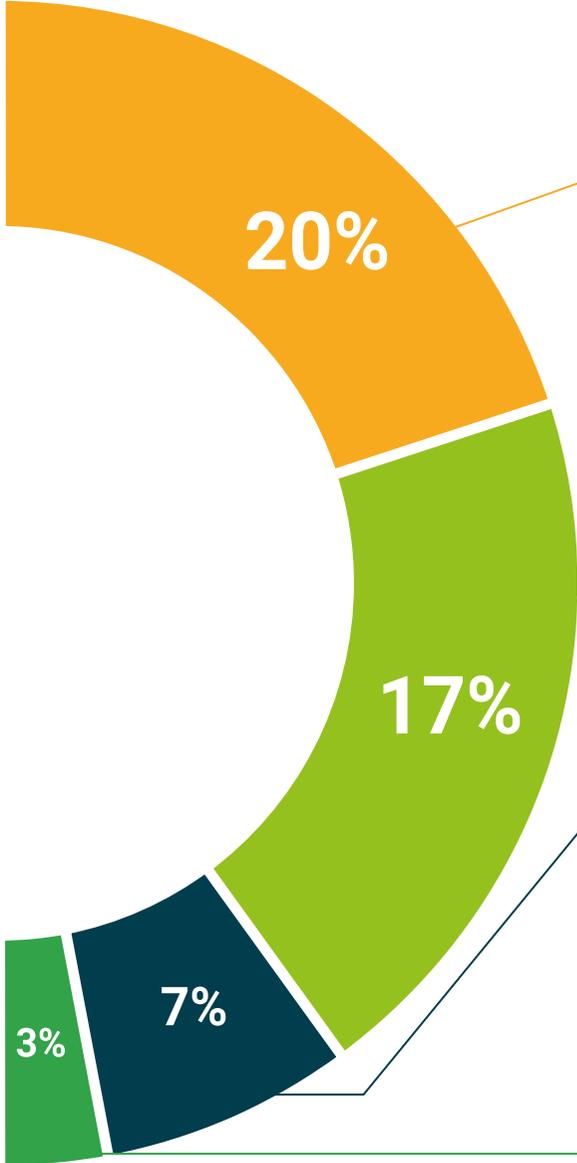
This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



#### Additional Reading

Recent articles, consensus documents, international guides... In our virtual library you will have access to everything you need to complete your education.





**Case Studies**

Students will complete a selection of the best case studies in the field. Cases that are presented, analyzed, and supervised by the best specialists in the world.



**Testing & Retesting**

We periodically assess and re-assess your knowledge throughout the program. We do this on 3 of the 4 levels of Miller's Pyramid.



**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 for 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

# Teaching Staff

The faculty is composed of internationally renowned experts with extensive experience in clinical practice and advanced research. Accordingly, faculty members not only have a solid academic background, but are also at the forefront of the latest advances in the diagnosis and treatment of ocular pathologies in horses. Thanks to this, their up-to-date approach allows graduates to train directly from those who are making a difference in the field of Equine Ophthalmology. Moreover, the faculty members provide close, accessible and specialized learning, ensuring that each graduate receives the best possible training.



“

*TECH faculty members combine experience and cutting-edge knowledge, ensuring a comprehensive preparation to successfully meet the challenges of the professional world”*

## Management



### Dr. Arteaga Sancho, Kevin

- Senior Ophthalmologist at CityU VMC
- Expert in Basic Sciences in Ophthalmology from the University of California
- Specialist in Veterinary Ophthalmology from the University of Barcelona
- Master's Degree in Small Animal Medicine from the University of Murcia
- Degree in Veterinary Medicine from the CEU University of Valencia

## Professors

### Dr. Cantero, Francisco

- Veterinary Ophthalmologist in AniCura Ars and AniCura Glòries Veterinary Hospitals
- Expert in Posterior Segment Alterations by the UAB
- Expert in Ocular Ultrasonography and UBM by the SEOVET
- Expert in Equine Ophthalmologic Diagnosis by the Ocularvet
- Specialist in Veterinary Ophthalmology by the European Board of Veterinary Specialization (EBVS)
- Degree in Veterinary Medicine from the University of Santiago de Compostela

### Dr. Matas Riera, Màrian

- Administrator-Founding Partner of Memvet - Itinerant Equine Ophthalmology Services Mallorca
- Specialist in Veterinary Education from the Royal Veterinary College
- Specialist in Veterinary Ophthalmology by the UAB
- Certified by the European College of Veterinary Ophthalmology
- Degree in Veterinary Medicine and Science from the Autonomous University of Barcelona (UAB)
- Editor of the Journal of AVEPA (Veterinary Association of Small Animal Specialists)

**Dr. Guarnizo Barrionuevo, Carla Pamela**

- ♦ Veterinary Technical Assistant (VTA) at the Ophthalmologic Veterinary Institute (IVO)
- ♦ Expert in Ocular Ultrasonography at Oftalmovet Center
- ♦ Expert in Laboratory Analysis at CONCERVET Veterinary Clinic
- ♦ Expert in Ocular Ultrasonography in GENOV
- ♦ Specialist in Neurology, Ophthalmology and Reproduction of Small Animals at the Autonomous University of Barcelona
- ♦ Specialist in Intensive Care and Dermatology at the Autonomous University of Barcelona
- ♦ Specialist in Advanced Veterinary Ophthalmology
- ♦ Diploma in Veterinary Ophthalmology from the Catholic University of Salta
- ♦ Degree in Veterinary and Zootechnics from the Cayetano Heredia Peruvian University

**Dr. Castilla Rey, Laura**

- ♦ Veterinarian in the Ophthalmology and Support Service at MEMVET
- ♦ Expert in Corneal Microsurgery and Gonioimplant by SEOVET
- ♦ Expert in Basic Abdominal Ultrasound in Small Animals by Quadam Institute
- ♦ Degree in Veterinary Medicine from the University of Córdoba
- ♦ Certified in Veterinary Ophthalmology (CCOV) by the Autonomous University of Barcelona
- ♦ Member of: Spanish Association of Veterinary Ophthalmology (SEOVET)

**Dr. Simó Vesperinas, María**

- ♦ Emergency Veterinarian at Vets Now Emergency Hospital. Manchester
- ♦ Veterinarian in General Medicine at Canis Veterinary Hospital. Girona, Spain
- ♦ Stays at the Texas A&M Veterinary Medical Teaching Hospital
- ♦ Degree in Veterinary Medicine from the Autonomous University of Barcelona
- ♦ Practical program of Microsurgery in Corneal Pathology at the Institute of Ocular Microsurgery (IMO)
- ♦ Veterinary Ophthalmology Congress: "Ocular manifestations of systemic diseases", held at the Institute of Ocular Microsurgery (IMO)
- ♦ Postgraduate in Veterinary Ophthalmology by British Small Animal Veterinary Association

**Dr. Simó Domenech, Francisco José**

- ♦ Medical Director and Founder at the Ophthalmologic Veterinary Institute (IVO)
- ♦ Veterinary Ophthalmologist at Long Island Veterinary Specialists. New York
- ♦ Collaboration with the R&D Department of Alcon Laboratories. El Masnou, Spain
- ♦ Collaborations in the experimental center of Harlan Laboratories
- ♦ Degree in Veterinary Medicine from the University of Zaragoza
- ♦ Postgraduate Degree in Veterinary Ophthalmology from the Autonomous University of Barcelona
- ♦ Residencies at the Veterinary Faculty of Toulouse, with Dr. Marc Simon in Paris and at the Ophthalmology Service of Long Island Veterinary Specialists in New York
- ♦ Accredited by the Association of Spanish Veterinarians Specialists in Small Animals (AVEPA) as a Specialist in Veterinary Ophthalmology
- ♦ Member of: Spanish Society of Veterinary Ophthalmology (SEOVET)

07

# Certificate

The Postgraduate Diploma in Intraocular Disease Equine Ophthalmology guarantees students, in addition to the most rigorous and up-to-date education program, access to a Postgraduate Diploma issued by TECH Global University.



“

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

This private qualification will allow you to obtain a **Postgraduate Diploma in Intraocular Disease Equine Ophthalmology** 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 private qualification**, 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 Diploma in Intraocular Disease Equine Ophthalmology**

Modality: **online**

Duration: **6 months**

Accreditation: **18 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  
classroom



**Postgraduate Diploma**  
Intraocular Disease Equine  
Ophthalmology

- » Modality: online
- » Duration: 6 months
- » Certificate: TECH Global University
- » Accreditation: 18 ECTS
- » Schedule: at your own pace
- » Exams: online

# Postgraduate Diploma

## Intraocular Disease Equine Ophthalmology

