

# Postgraduate Certificate

## Ocular Pathologies in Foals





## Postgraduate Certificate Ocular Pathologies in Foals

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

Website: [www.techtute.com/us/veterinary-medicine/postgraduate-certificate/ocular-pathologies-foals](http://www.techtute.com/us/veterinary-medicine/postgraduate-certificate/ocular-pathologies-foals)

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# 01

# Introduction

Ocular Pathologies in foals represent a significant challenge in Equine Veterinary Medicine. In this context, recent studies conducted by the American College of Veterinary Ophthalmologists, highlight that up to 15% of newborn foals present some degree of ocular affection, from traumatic injuries to congenital anomalies. With this scenario in mind and with the objective of analyzing the main diseases during the early developmental stage, TECH has developed this program, which will address the incidences, risk factors and treatments available for these conditions. In this way, professionals will specialize in an area of growing demand, improving their skills to offer effective solutions. All this, in a 100% online methodology.



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*You will gain a competitive advantage in the veterinary field and become a reference in the management of equine eye health. Join TECH and discover the benefits of this Postgraduate Certificate”*

During the first months of life, foals are exposed to various factors that can trigger eye conditions, from mechanical trauma and infections to congenital anomalies. Therefore, these pathologies, if not detected and treated in time, can lead to serious complications such as partial or total blindness, systemic infections and even affect their physical and behavioral development. Consequently, the study of Ocular Pathologies in foals is not only important for veterinarians, but also for breeders, trainers and owners committed to equine welfare.

Under this premise, TECH presents this Postgraduate Certificate in Ocular Pathologies in Foals, designed for professionals to broaden their knowledge in a specific and highly relevant area. Specialists will develop the ability to identify early the most common ocular pathologies, which not only improves the prognosis for the animals, but also reinforces their professional prestige by demonstrating their preparation in a highly demanded field. In addition, they will handle the most advanced diagnostic techniques and the most effective treatment strategies, aligned with current trends in veterinary medicine.

In the future, specializing in such a relevant topic will position graduates as leaders in equine eye health, opening doors in veterinary clinics, breeding farms, sports associations and other environments where expertise in foal care is valued. This program represents not only a great academic opportunity, but also an investment in professional development and the ability to provide impactful solutions in animal welfare.

The 100% online modality allows graduates to expand their knowledge from anywhere in the world, without the need to alter their work or personal routine. In turn, this is complemented by the implementation of the Relearning methodology, an innovative technique based on the repetition of key concepts in different contexts. This approach facilitates the assimilation of knowledge in a progressive and natural way, reducing the need to memorize and enhancing practical training.

This **Postgraduate Certificate in Ocular Pathologies in Foals** 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 Ocular Pathologies in Foals
- ◆ The graphic, schematic and eminently practical content of the book provides scientific and practical information on those disciplines that are essential for professional practice
- ◆ Practical exercises where the process of 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



*TECH gives you the best academic experience!" This innovative program not only contributes to your professional development, but also to the advancement of Equine Veterinary Medicine on a general level"*

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*You'll become an expert in equine ocular health! You will discover how to diagnose and treat the most common ocular pathologies in foals with a program that will transform your veterinary practice!”*

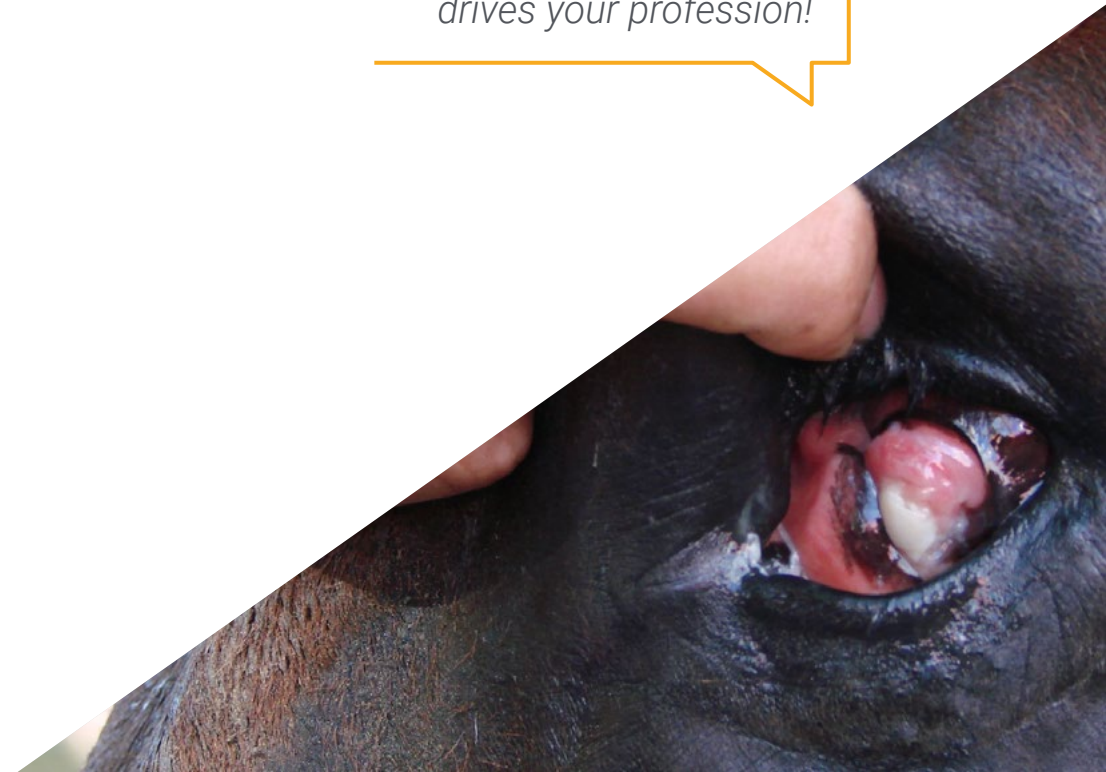
The program's teaching staff includes professionals from the field who contribute their work experience to this educational program, as well as renowned specialists from leading societies and prestigious universities.

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.

*You will master the keys to the clinical management of ocular pathologies in foals with the support of experts and an innovative methodology. Learn online and take your knowledge to the next level!*

*You'll access a unique program that combines online flexibility and up-to-date content to master foal eye care. TECH connects you to the learning that drives your profession!*

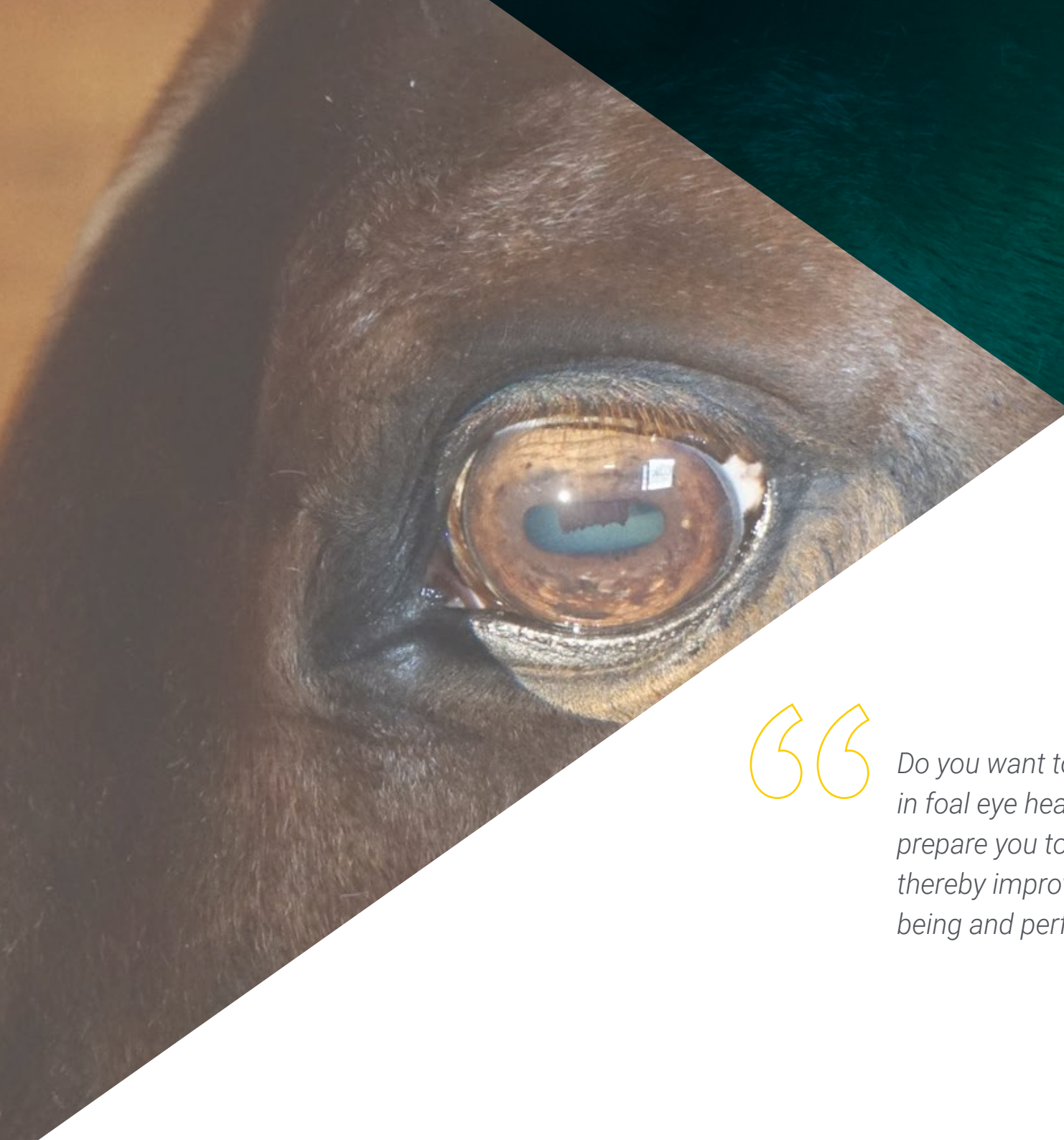


# 02 Syllabus

This university program will provide comprehensive and specialized training in the diagnosis, treatment and management of the main ocular diseases affecting foals. Throughout the curriculum, professionals will delve into the anatomical and physiological fundamentals of the equine eye, identifying common pathologies such as Corneal Ulcers, Conjunctivitis, Distichiasis and Glaucoma. In addition, they will address key topics such as the management of ocular infections, advanced diagnostic techniques and the most effective therapeutic approaches, including surgical options. Finally, they will delve into the complications that can arise during treatment and the prevention of future pathologies.







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*Do you want to successfully intervene in foal eye health? This curriculum will prepare you to accomplish your goals, thereby improving the long-term well-being and performance of the animals”*

## Module 1. Ocular Pathologies in Foals

- 1.1. Ocular Examination in Foals
  - 1.1.1. Vision in Newborn Foals
  - 1.1.2. Neuro-Ophthalmology
  - 1.1.3. Ocular Appendages
  - 1.1.4. Anterior Segment
  - 1.1.5. Tonometry
  - 1.1.6. Fundusoscopic Examination
  - 1.1.7. Other Complementary Tests
- 1.2. Alterations of the Ocular Appendages in Foals
  - 1.2.1. Congenital Diseases of the Eyelids
  - 1.2.2. Acquired Diseases of the Eyelids
  - 1.2.3. Alterations of the Third Eyelid
  - 1.2.4. Alterations of the Nasolacrimal Duct
- 1.3. Alterations of the Conjunctiva in Foals
  - 1.3.1. Congenital Disorders
  - 1.3.2. Acquired Alterations: Conjunctival Hemorrhage
  - 1.3.3. Acquired Alterations: Conjunctivitis
- 1.4. Congenital Alterations of the Cornea in Foals
  - 1.4.1. Megalocornea
  - 1.4.2. Microcornea
  - 1.4.3. Corneal Dermoids
  - 1.4.4. Corneal Vascularization
- 1.5. Acquired Corneal Alterations in Foals
  - 1.5.1. Ulcerative Keratitis
  - 1.5.2. Corneal Dystrophies
  - 1.5.3. Non-Ulcerative Keratopathies



- 1.6. Congenital Alterations of the Uvea in Foals
  - 1.6.1. Iridial Hypoplasia
  - 1.6.2. Aniridia
  - 1.6.3. Iridial Coloboma
  - 1.6.4. Congenital Myosis
  - 1.6.5. Pigmentary Variations
  - 1.6.6. Anterior Segment Dysgenesis
  - 1.6.7. Persistent Pupillary Membrane
  - 1.6.8. Anterior Iridial Cysts
  - 1.6.9. Other Congenital Alterations
- 1.7. Acquired Alterations of the Uvea in Foals
  - 1.7.1. Anterior Uveitis
  - 1.7.2. Uveitis Secondary to Septicemia
  - 1.7.3. Uveitis due to *Rhodococcus equi*
  - 1.7.4. Uveitis due to Equine Mumps
  - 1.7.5. Uveitis Secondary to Viral Diseases
- 1.8. Alterations of the Crystalline Lens and Glaucoma in Foals
  - 1.8.1. Cataracts
  - 1.8.2. Congenital Lens Dislocation and Ectopic Lens
  - 1.8.3. Coloboma of the Crystalline Lens
  - 1.8.4. Lenticonus and Lentiglobus
  - 1.8.5. Microphakia
  - 1.8.6. Acquired Disorders
- 1.9. Alterations of the Retina and the Optic Nerve in Foals
  - 1.9.1. Retinal Hemorrhages
  - 1.9.2. Coloboma of the Posterior Segment
  - 1.9.3. Hypoplasia of the Optic Nerve
  - 1.9.4. Retinal Dysplasia
  - 1.9.5. Retinal Detachment
  - 1.9.6. Congenital Stationary Congenital Night Blindness
  - 1.9.7. Persistent Hyaline Artery
  - 1.9.8. Acquired Fundus Diseases
- 1.10. Congenital Alterations of the Eyeball and Orbit in Foals
  - 1.10.1. Congenital Glaucoma
  - 1.10.2. Microphthalmia and Anophthalmia
  - 1.10.3. Strabismus
  - 1.10.4. Other Congenital Diseases of the Eyeball
  - 1.10.5. Other Congenital Diseases of the Orbit



*This program will enable you to acquire, at an early stage, key knowledge and technical skills for your career development in Equine Ophthalmology”*

03

# Teaching Objectives

The main goal of this Postgraduate Certificate is to provide specialized and comprehensive training in the diagnosis, treatment and management of ocular diseases affecting foals. Throughout the program, professionals will develop a thorough understanding of ocular anatomy and the most common pathologies that impact the vision and well-being of these animals. In addition, they will know how to identify ocular diseases early, which is crucial for their effective treatment and the prevention of future complications. In this way, graduates will know how to make accurate diagnoses using the most advanced tools.





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*You will develop your best skills and technical abilities through the theoretical materials and multimedia resources that TECH has for you. What are you waiting for? Enroll now!"*



## General Objectives

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- ♦ Develop skills to diagnose the main ocular pathologies in foals
- ♦ Apply advanced ocular diagnostic techniques in foals, such as ophthalmoscopy and fluorescein
- ♦ Identify the most common conditions affecting foal vision, such as corneal ulcers and conjunctivitis
- ♦ Acquire knowledge of medical and surgical therapeutic options for ocular pathologies
- ♦ Improve ability to manage the treatment of ocular disease and prevent complications
- ♦ Manage long-term management plans for the ocular care of growing foals
- ♦ Optimize preventive management of ocular disease in foals
- ♦ Develop the ability to effectively intervene in foal eye care from an early stage of foal development





## Specific Objectives

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### Module 1. Ocular Pathologies in Foals

- ◆ Diagnose congenital and acquired ocular pathologies in foals
- ◆ Evaluate medical and surgical treatments for ocular diseases in foals
- ◆ Design clinical management strategies to prevent ocular complications in foals
- ◆ Apply appropriate screening techniques to detect early stage visual problems



*With one click, you will have the opportunity to obtain high-level competencies that will enhance your professional profile in Equine Ophthalmology”*

04

# 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

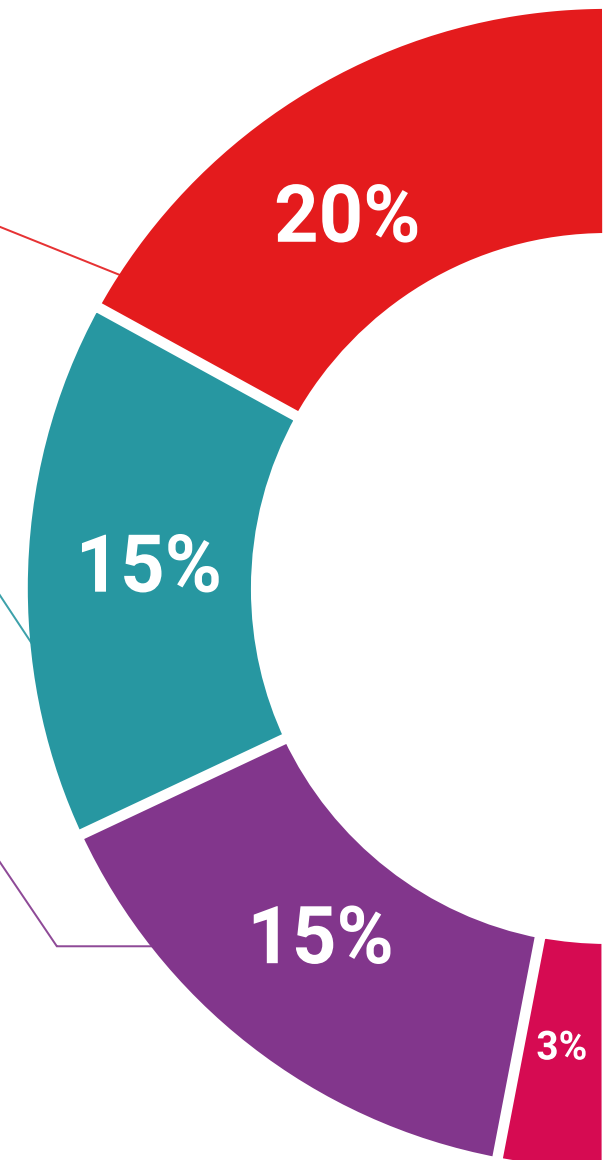
We present the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

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.



05

# Teaching Staff

The teaching staff is composed of highly qualified professionals with vast experience in the field of Veterinary Ophthalmology. In fact, they are veterinarians specialized in equine ocular health, with years of clinical practice and teaching in internationally renowned institutions. Thanks to their experience and dedication, students will receive excellent training, based on the latest trends in diagnosis and treatment of ocular pathologies in foals. Therefore, this faculty's commitment to quality education ensures that graduates not only learn the fundamentals, but also become familiar with the most innovative and effective techniques.



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*TECH faculty, experts with extensive backgrounds in the industry, will prepare you to confidently and knowledgeably meet any challenge related to foal eye health”*

## 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. Martín Cuervo, María

- ◆ Head of the Internal Medicine Service of the Clinical Veterinary Hospital of the University of Extremadura
- ◆ Researcher specialized in Large Animals
- ◆ Associate Professor of the Department of Animal Medicine and Surgery, Extremadura University
- ◆ Doctor in Veterinary Medicine from the University of Extremadura
- ◆ Degree in Veterinary Medicine from the University of Córdoba
- ◆ Specialist Veterinarian
- ◆ First prize in the IV edition of the awards of the Royal Academy of Veterinary Sciences and the Tomas Pascual Sanz Institute
- ◆ Pizarro Pious Work Foundation Award of the XLVI Historical Colloquiums of Extremadura
- ◆ Member of: European Board of Veterinary Specialization (EBVS), European College of Equine Internal Medicine (ECEIM) and Spanish Association of Equine Veterinarians (AVEE)



*All teachers in this program accumulate extensive experience, offering you an innovative perspective on the main advances in this field of study”*

# 06 Certificate

The Postgraduate Certificate in Ocular Pathologies in Foals guarantees, in addition to the most accurate and up-to-date education, access to a Postgraduate Certificate issued by TECH Global University.



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*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 Certificate in Ocular Pathologies in Foals** 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 Certificate in Ocular Pathologies in Foals**

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.





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## Ocular Pathologies in Foals

