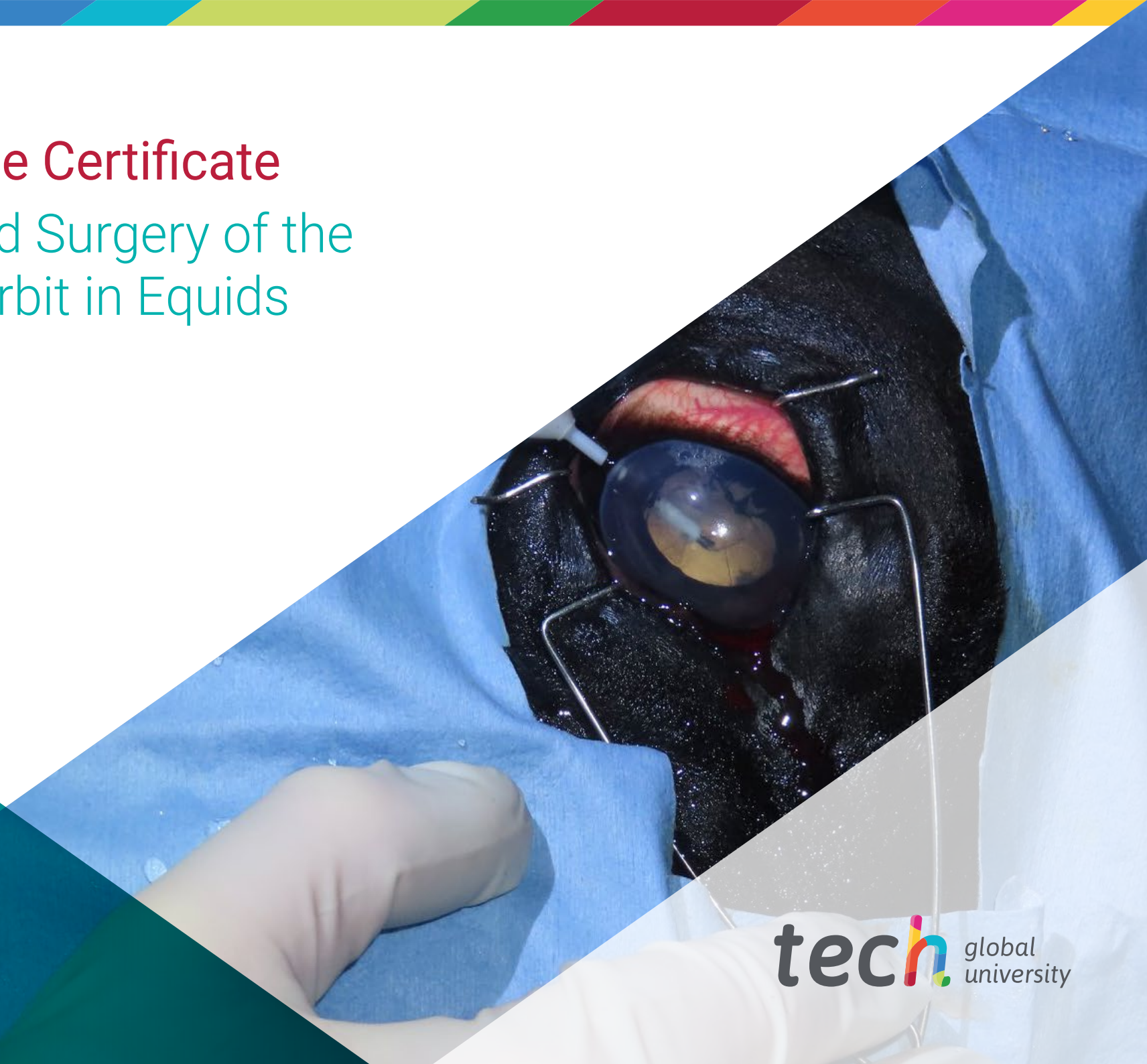


Postgraduate Certificate

Diseases and Surgery of the Globe and Orbit in Equids





Postgraduate Certificate Diseases and Surgery of the Globe and Orbit in Equids

- » 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/diseases-surgery-globe-orbit-equids

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01

Introduction

Diseases and surgical alterations of the globe and orbit in equids represent a significant challenge in veterinary practice due to the anatomical complexity of this region and its impact on the welfare and functionality of the animal. According to the American College of Veterinary Ophthalmologists (ACVO), ocular disorders are one of the main causes of consultation in Equine Medicine, highlighting problems such as Equine Recurrent Uveitis, Corneal Ulcers and Orbital Neoplasms, which require advanced therapeutic approaches. Given this premise, TECH presents this program as a unique opportunity for professionals to acquire specialized knowledge in the diagnosis, management and surgical treatment of complex ocular pathologies in these animals. All this, through a 100% methodology and a completely updated curriculum.



“

Boost your career with TECH and become a reference in equine eye care! You will make a difference in your veterinary practice and contribute to the welfare of equine animals with a cutting-edge specialization”

Diseases and Surgery of the Globe and Orbit in Equids is a key area, the proper care of which has a direct impact on the animal's welfare, performance and the relationship between veterinarians and owners. In addition, its importance extends to the economic and emotional realm, as many equids have a high value, not only for their athletic performance, but also for their place in their owners' lives. Ultimately, specialization in this field not only improves the prospects of affected equines, but also boosts the prestige and effectiveness of the professionals who care for them.

For this reason, TECH has developed this Postgraduate Certificate in Diseases and Surgery of the Globe and Orbit in Equids, which will provide the necessary tools to understand, diagnose and treat the main pathologies that affect the eye and orbit of equids, a field that requires advanced knowledge and precise technical skills. Throughout the program, specialists will learn how to manage complex diseases such as Equine Recurrent Uveitis, Corneal Ulcers and Orbital Neoplasms. They will also become familiar with the latest surgical techniques to address these conditions, improving their technical skills and gaining a competitive advantage in an increasingly specialized market.

One of the greatest benefits of this postgraduate program is the specialization it provides to graduates, which will open up new job opportunities in the veterinary field, especially in clinics and hospitals specializing in high-performance animals. In addition, it will provide added value to their daily practice, allowing them to offer services of higher quality and differentiation compared to other colleagues in the sector.

The 100% online modality offers a unique flexibility that adapts to the student's schedule, allowing them to advance at their own pace without interrupting their career. At the same time, this program will implement the Relearning methodology, a pedagogical approach that favors the retention and deep understanding of the concepts.

This **Postgraduate Certificate in Diseases and Surgery of the Globe and Orbit in Equids** contains the most complete and up-to-date scientific program on the market.

The most important features include:

- ♦ The development of case studies presented by experts with a deep mastery of Diseases and Surgery of the Globe and Orbit in Equids
- ♦ 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



Thanks to TECH, you will be better prepared to face the complexities of Equine Ophthalmology, improving animal health and strengthening your professional profile in the job market"

“

Are you ready to master Equine Ophthalmology? With this program you, will gain the necessary skills to face the most complex pathologies in high-performance animals. Grow your career!”

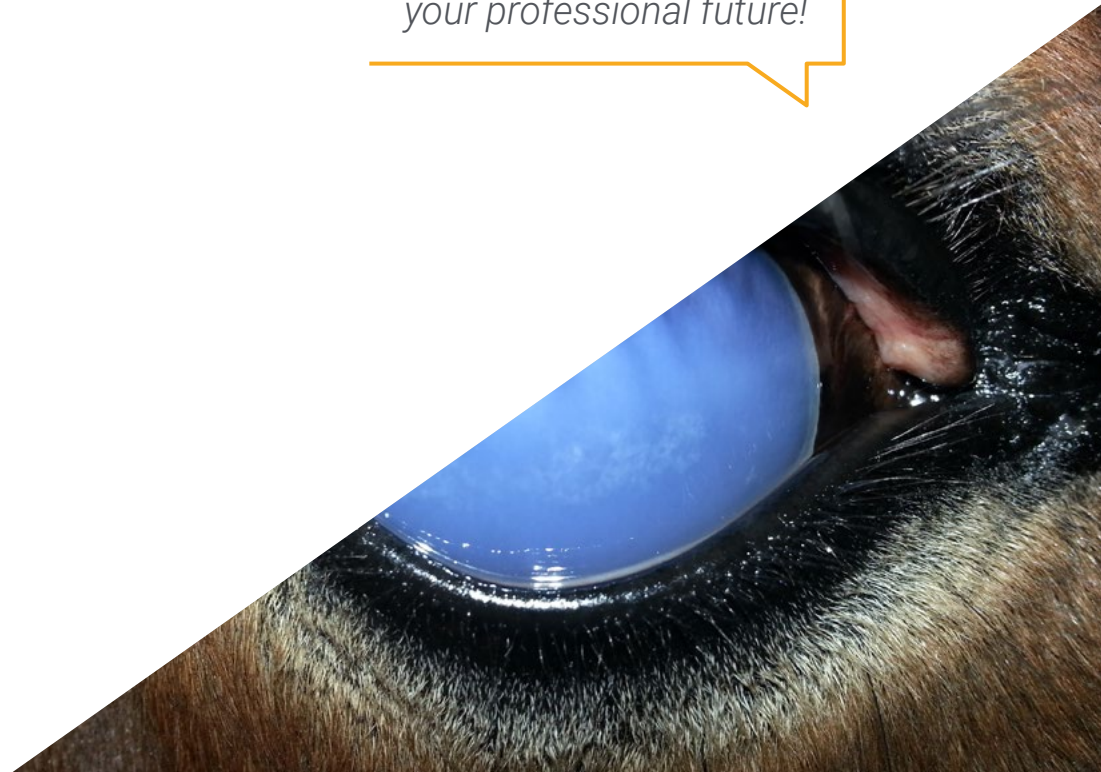
The program's teaching staff includes professionals from the industry who contribute their work experience to this program, as well as renowned specialists from leading societies and prestigious universities.

Its multimedia content, developed with the latest educational technology, will allow the professional a situated and contextual learning, that is, a simulated environment that will provide an immersive learning programmed to prepare for 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, students will be assisted by an innovative interactive video system created by renowned experts.

Take your veterinary career to the next level! Specialize in Diseases and Surgeries of the Eye and Orbit in Equids with the most comprehensive and up-to-date program.

This innovative program will give you the practical and specialized knowledge you need to excel in the veterinary field. You will transform your professional future!



02 Syllabus

This university program will equip veterinarians with the knowledge and skills necessary to address Diseases and Surgery of the Ocular Globe and Orbit in Equids with precision and efficiency. Throughout the curriculum, professionals will address in depth the main related diseases, including Uveitis, Corneal Ulcers, Ocular Infections and Orbital Neoplasms. The postgraduate course will also address the most advanced surgical techniques for the treatment of these conditions, including reconstructive surgery of the orbit, foreign body removal and correction of ocular anomalies.





“

This comprehensive curriculum will prepare you to ensure equine eye health and provide quality care, raising your professional profile in the field of Veterinary Medicine”

Module 1. Diseases and Surgery of the Globe and Orbit in Equids

- 1.1. Clinical Physiology of the Orbit and the Globe in Equids
 - 1.1.1. The Skull, Foramen and Periorbit
 - 1.1.2. Physiology of the Globe
 - 1.1.3. The Vascular Supply of the Orbit
 - 1.1.4. Anatomical Structures Adjacent to the Orbit
- 1.2. Methods for Diagnosis of the Orbit and the Globe in Equids
 - 1.2.1. Oculokinetic Reflexes and Forced Duction Tests
 - 1.2.2. Diagnostic Imaging of the Orbit and Fine Needle Aspiration
 - 1.2.3. Impact of Orbital and Globe Pathologies in the Equine Industry
- 1.3. Clinical Symptoms of Orbital Pathologies in Equids
 - 1.3.1. Strabismus and Nystagmus
 - 1.3.2. Abnormalities of the Position and Size of the Globe
 - 1.3.3. Compilation of Additional Symptoms Related to Orbital Pathologies
- 1.4. Congenital Pathologies in Equids
 - 1.4.1. Microphthalmos
 - 1.4.2. Orbital Dermoids
 - 1.4.3. Orbital and Globe Vascular Anomalies
- 1.5. Acquired Traumatic Pathologies in Equids
 - 1.5.1. Exophthalmia and Ocular Proptosis
 - 1.5.2. Perforation of the Globe
 - 1.5.3. Ocular Injuries Associated with Facial Trauma
 - 1.5.4. Penetration of Foreign Bodies into the Orbit
 - 1.5.5. Orbital Fat Prolapse
- 1.6. Acquired Infectious and Inflammatory Pathologies in Equids
 - 1.6.1. Orbital Velulitis
 - 1.6.2. Parasitic Orbital Diseases
 - 1.6.3. Periostitis
 - 1.6.4. Nutritional Myopathy
 - 1.6.5. Pseudotumor





- 1.7. Orbital Tumors in Equids
 - 1.7.1. Diagnosis, Treatment and Prognosis
 - 1.7.2. Nasal and Orbital Adenocarcinomas
 - 1.7.3. Angiosarcomas and Hemangiosarcomas
 - 1.7.4. Malignant Rhabdoid Tumors
 - 1.7.5. Medulloepitheliomas and Meningiomas
- 1.8. Periorbital Pathologies in Equids
 - 1.8.1. Sinusitis
 - 1.8.2. Nasal and Sinus Cysts
 - 1.8.3. Nasal and Sinus Neoplasms
 - 1.8.4. Guttural Pouch Pathologies
- 1.9. Treatment of Orbital Pathologies in Equids
 - 1.9.1. Medical Treatment
 - 1.9.2. Tarsorrhaphy
 - 1.9.3. Soft Tissue Injuries
 - 1.9.4. Orbital Fractures
- 1.10. Orbital Surgery in Equids
 - 1.10.1. Orbital Examination
 - 1.10.2. Enucleation
 - 1.10.3. Exenteration
 - 1.10.4. Radical Eyelid Resection, Grafting and Expansion of Adjacent Skin
 - 1.10.5. Orbital Implants, Evisceration with Intrascleral Implant and Prosthesis
 - 1.10.6. Retrobulbar Block and Surgeries under Sedation with Local Anesthesia
 - 1.10.7. Related Surgeries: Sinus Trepanations and Dental Surgeries

03

Teaching Objectives

This program aims to provide comprehensive and specialized training in the diagnosis, treatment and surgery of ocular and orbital conditions in equids. In this way, professionals will develop the necessary knowledge to safely and effectively face the challenges presented by the most complex ocular pathologies in these animals. In addition, they will know how to make an accurate diagnosis of diseases affecting the globe and orbit in equids. Thanks to this, the graduates will know how to recognize the clinical signs of conditions such as Corneal Ulcers, Cataracts, Uveitis and Orbital Neoplasms.



“

This specialization, taught by experts in the sector, will allow you to stand out in the field of Veterinary Medicine, opening new opportunities for professional development in a discipline that is in high demand”



General Objectives

- ◆ Develop skills to diagnose ocular and orbital diseases in equids
- ◆ Apply advanced ocular diagnostic techniques, such as ophthalmology and imaging studies
- ◆ Identify and treat common conditions of the globe and orbit in horses
- ◆ Acquire knowledge of surgical procedures to treat ocular and orbital pathologies
- ◆ Improve the ability to perform surgical procedures on the globe and orbit
- ◆ Optimize postoperative and recovery management of ocular interventions in equids
- ◆ Implement preventive strategies to minimize the risk of ocular disease in horses
- ◆ Manage effective treatment plans to improve ocular health and quality of life in equids





Specific Objectives

- ♦ Identify the main pathologies affecting the globe and the orbit in equids
- ♦ Analyze the surgical procedures used in the treatment of these diseases
- ♦ Apply advanced diagnostic criteria to evaluate conditions of the globe in equines
- ♦ Design pre- and post-surgical management plans in cases of complex ocular surgery

“

In an environment where opportunities for growth and success are abundant, TECH prevails with this program as a clear path to excellence 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.



“

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.

“

*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.

“

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.

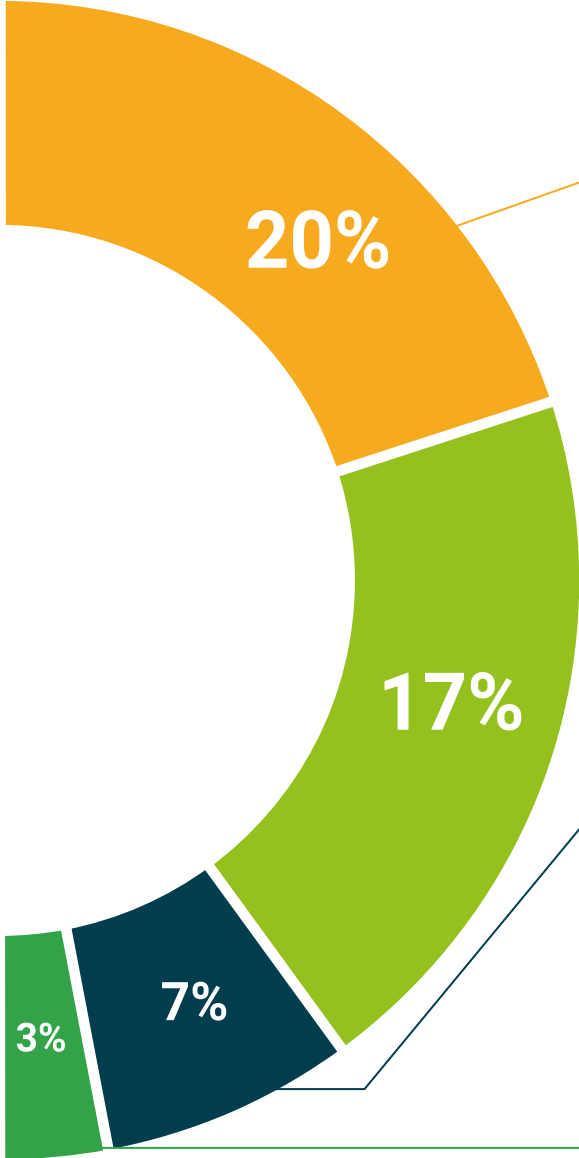
This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



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 of this postgraduate course is made up of experts in veterinary ophthalmology and equine surgery, recognized for their international experience in clinical care and research in this area. In this sense, the professors combine a solid academic background with practical experience in prestigious veterinary hospitals, which will allow them to transmit updated knowledge applied to the reality of professional practice. Therefore, each expert will provide a specialized approach, from advanced diagnostic techniques to precision surgical procedures, ensuring that graduates obtain a comprehensive understanding of diseases and treatments of the eyeball and orbit in equids.



“

This excellent teaching team not only guides learning efficiently, but also fosters the development of key skills to excel in this sector. So you'll be ready to make informed clinical decisions”

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. Herb, Verena

- ◆ Head of Ophthalmology Service in a Multidisciplinary Clinic
- ◆ Doctor of Veterinary Medicine from the Veterinary University of Vienna
- ◆ Certified by the European College of Veterinary Ophthalmology (ECVO)
- ◆ Degree in Veterinary Medicine from the Ludwig-Maximilians-University of Vienna
- ◆ Erasmus at the Faculty of Veterinary Medicine by the Complutense University
- ◆ Member of: Spanish Society of Ophthalmology Veterinarian and International Consortium of Equine Ophthalmology

“

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 Diseases and Surgery of the Globe and Orbit in Equids guarantees, in addition to the most accurate and up-to-date training, 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 private qualification will allow you to obtain a **Postgraduate Certificate in Diseases and Surgery of the Globe and Orbit in Equids** 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 Diseases and Surgery of the Globe and Orbit in Equids**

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.



Postgraduate Certificate Diseases and Surgery of the Globe and Orbit in Equids

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

Postgraduate Certificate

Diseases and Surgery of the Globe and Orbit in Equids

