

# Postgraduate Certificate

## Genitourinary System Disorders in Small Animals





## Postgraduate Certificate Genitourinary System Disorders in Small Animals

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

Website: [www.techtitute.com/us/veterinary-medicine/postgraduate-certificate/genitourinary-system-disorders-small-animals](http://www.techtitute.com/us/veterinary-medicine/postgraduate-certificate/genitourinary-system-disorders-small-animals)

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# 01

# Introduction

Internal medicine is the fundamental pillar on which the veterinary profession is based, while it is also closely linked to other specialties. With this Postgraduate Diploma, the veterinary specialist will carry out in-depth studies of Genitourinary System Disorders in Small Animals, guided by professionals with years of experience in the field.

A unique specialization that stands out for the quality of its contents and an excellent teaching methodology.







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*This Postgraduate Certificate is organized so as to allow for logical and intuitive in-depth study as well as the consolidation of diagnostic, therapeutic and follow-up protocols"*

Genitourinary pathologies are a series of ailments that occur frequently in the small animal clinic, and apart from being easily recognizable by the clinician, they also present evident symptoms to patients' owners.

The fact that they frequently appear does not indicate that their diagnosis and treatment are simple, since their etiology is wide-ranging.

It is therefore of vital importance to know the pathogenesis, the correct choice of a diagnosis, correct therapeutic guidelines and the adequate follow-up, so that the patients suffering from it benefit from a correct approach.

The topics covered in this program have been selected to offer complete, up-to-date and quality specialization in internal medicine, thereby providing students with knowledge that will allow them to safely deal with cases and carry out adequate follow-up, monitoring and therapeutic procedures.

The teaching staff in this program is made up of specialists from within different areas of internal medicine with extensive clinical experience. These faculty members have received accreditation as specialists in different fields such as cardiology, ophthalmology, diagnostic imaging, dermatology and oncology, and have frequently collaborated together in veterinary specialty centers.

In addition to providing quality clinical work, some of these experts actively participate in various research projects parallel to their teaching and clinical activities.

This **Postgraduate Certificate in Genitourinary System Disorders in Small Animals** contains the most complete and up-to-date educational program on the market. Its most important features include:

- ♦ Case studies presented by experts in Genitourinary System Disorders in Small Animals
- ♦ The graphic, schematic, and practical contents with which they are created provide scientific and practical information on the disciplines, essential for professional development
- ♦ Latest information on Genitourinary System Disorders in Small Animals
- ♦ Practical exercises where self-assessment can be used to improve learning
- ♦ Special emphasis on innovative methodologies in Genitourinary System Disorders in Small Animals
- ♦ 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



*Upon completion of the program, students will have obtained knowledge that is essential for professional practice, whether they choose to exercise in a clinical, academic or research context"*

“ *Each chapter is accompanied by clinical cases that aim to incorporate the knowledge conveyed and includes activities that will allow students to assess their progress*”

Its teaching staff includes professionals in veterinary medicine who bring the experience of their work to this program, in addition to recognized specialists from leading societies and prestigious universities.

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

The design of this program is based on Problem-Based Learning, through which specialists must try to solve the different situations of professional practice that arise throughout the program. For this, professionals will have the help of an innovative interactive video system created by recognized experts in Genitourinary System Disorders in Small Animals.

*You will learn to recognize pathologies associated with urinary and reproductive systems quickly and effectively.*

*A high-level program through which you will achieve professional success.*





02

# Objectives

The Postgraduate Certificate in Genitourinary System Disorders in Small Animals is designed to facilitate the performance of the veterinary professional with the latest advances and most innovative procedures in the field.







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*You will learn about common alterations in blood tests, X-rays and abdominal ultrasound, from professionals with years of experience in the field”*



## General Objectives

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- Recognize pathologies associated with the urinary and reproductive systems
- Identify the most common clinical signs and the most likely organ(s) involved
- Learn to choose the right diagnostic approach



*This Postgraduate Certificate is unique in its category, which will allow students to acquire specialized knowledge in order to offer high-quality internal medicine services to clients and patients”*







## Specific Objectives

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- ◆ Select and interpret tests and results
- ◆ Draw up correct therapeutic guidelines
- ◆ Establish correct follow-up approach with chronic problems

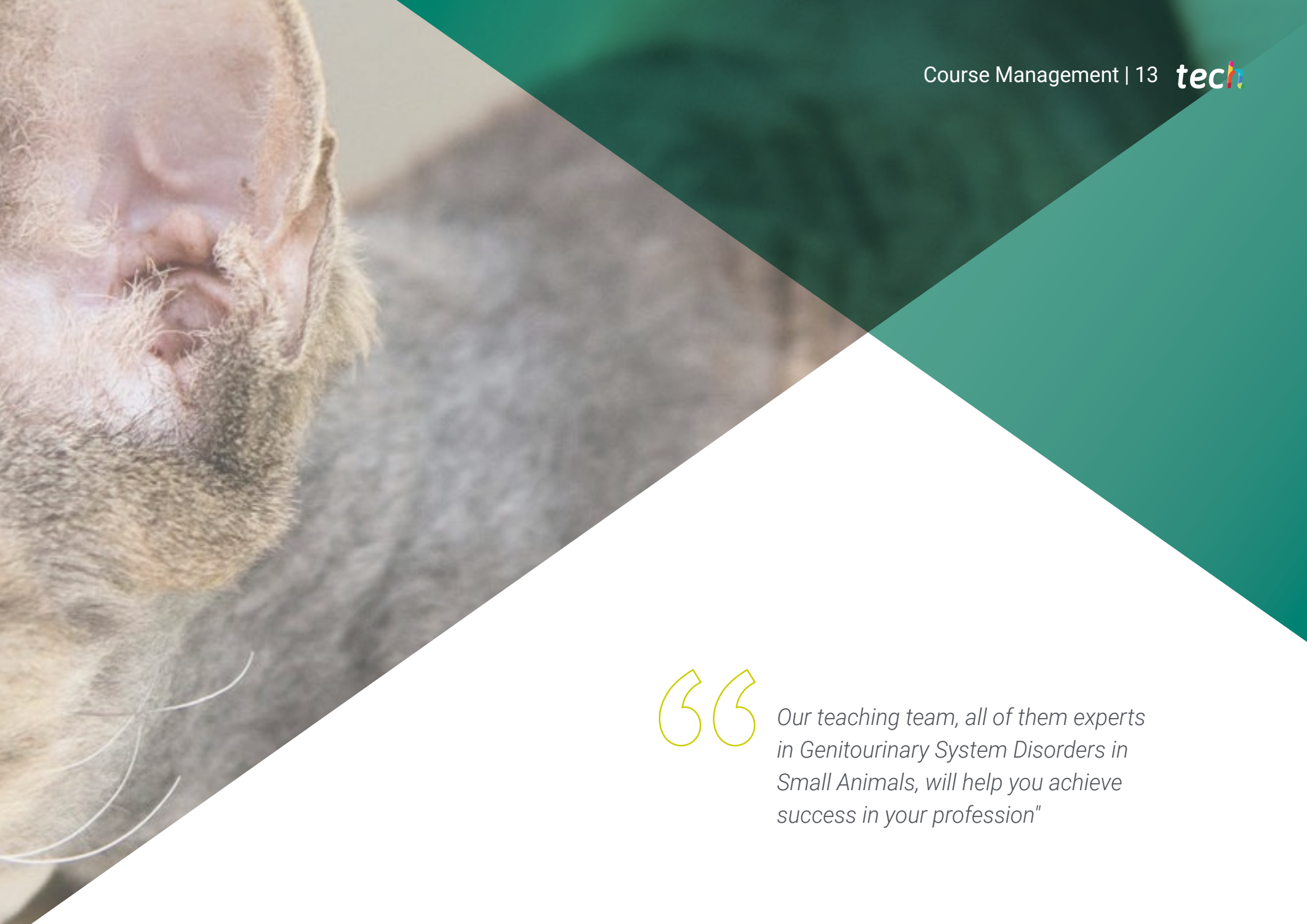
03

# Course Management

The program includes in its teaching staff renowned professionals who have joined forces to offer you this high-level training.







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*Our teaching team, all of them experts in Genitourinary System Disorders in Small Animals, will help you achieve success in your profession"*

## Management



### Ms. Pérez-Aranda Redondo, María

- Head of the Dermatology Service at Simbiosis Center for Veterinary Specialties Veterinarian at Aljarafe Norte Veterinary Center
- In charge of the Dermatology and Diagnostic Cytology service August 2017 - October 2019
- Veterinary clinic at the veterinary center Canitas in Sevilla Este Responsible for the Dermatology and Cytological Diagnostic Service of all Canitas Veterinary Centers April 2015 - July 2017
- Residency at the Dermatology Department of Veterinary Clinic Hospital - Autonomous University of Barcelona
- March 16 - March 27, 2015. Veterinarian at "Centro Veterinario Villarrubia" November 2014 - April 2015
- Official internship at the small animal unit of the Clinical Veterinary Hospital of the University of Cordoba, October 2013 - October 2014
- Honorary collaborator of the Department of Animal Medicine and Dermatological Surgery with Dr. Pedro Ginel Pérez. Student collaborator of the Department of Animal Medicine and Dermatological Surgery with Professor Dr. Pedro Ginel Pérez during the academic periods: 2010-2011, 2011-2012 and 2012-2013
- Student intern at the Veterinary Clinic Hospital of the University of Cordoba during the 2011-2012 and 2012-2013 academic periods



### **Mr. Usabiaga Alfaro, Javier**

- ♦ Bachelor's Degree in Veterinary Medicine from the University Alfonso X El Sabio (UAX); collaborating student at the University Veterinary Hospital UAX; rotated through all services of the center (Internal Medicine, Surgery, Anesthesia, Diagnostic Imaging, Emergency and Hospitalization)
- ♦ Master's Degree in Small Animal Medicine and Emergency Medicine from AEVA in 2013
- ♦ Master's Degree in Small Animal Medicine and Master's Degree in Small Animal Clinical Ultrasound, from Improve International, where he learned from veterinarians of great impact and world reputation who were also members of the American College and/or European College of Veterinary Studies in 2016 and 2017
- ♦ In 2018 he obtained the Certificate of General Practitioner in Small Animal Medicine (GPCert SAM), awarded by the International School of Veterinary Postgraduate Studies (ISVPS)
- ♦ Received his GPCert in Ultrasound from the ISVPS in 2020
- ♦ Obtained the title of the XXXIII National and XXX International Endoscopy Course from the Jesús Usón Minimally Invasive Surgery Center, Cáceres
- ♦ Postgraduate course in Diagnostic Imaging, Improve International Postgraduate Diploma in Surgery and Anaesthesia of Small Animals from the Autonomous University of Barcelona (UAB)
- ♦ Postgraduate course in Small Animal Surgery offered by the Instituto Veterinario I-Vet

# 04

# Structure and Content

The syllabus has been designed by experienced professionals in the field of Genitourinary System Disorders in Small Animals, who have recognized prestige in the profession, are backed by the volume of cases reviewed, studied, and diagnosed, and possess extensive knowledge of new technologies applied to veterinary medicine.







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*We have the most complete and up-to-date academic program on the market. We strive for excellence and for you to achieve it too"*

## Module 1. Genitourinary System Disorders

- 1.1. Urinary Physiology and Clinical Manifestations
  - 1.1.1. Physiology of the Kidney
  - 1.1.2. Polyuria
  - 1.1.3. Strangury and Dysuria
  - 1.1.4. Urinary Incontinence and Urinary Retention
  - 1.1.5. Systemic Hypertension
- 1.2. Functional Urinary Disorders
  - 1.2.1. Urinalysis
  - 1.2.2. Creatinine and Urea
  - 1.2.3. SDMA
  - 1.2.4. UPC
  - 1.2.5. Urinary Sediments
- 1.3. Disorders of Upper Tract
  - 1.3.1. Glomerulonephritis
  - 1.3.2. Tubular Disorders
  - 1.3.3. Congenital Kidney Diseases
  - 1.3.4. Ureteral Disorders
- 1.4. Disorders of Lower Tract
  - 1.4.1. Cystitis
  - 1.4.2. Urolithiasis
  - 1.4.3. Prostate and Urethral Disorders
- 1.5. Chronic Kidney Disease
  - 1.5.1. Diagnostic Approximation
  - 1.5.2. Treatment
  - 1.5.3. Monitoring and Follow-Up
- 1.6. Acute Kidney Failure
  - 1.6.1. Diagnostic Approximation
  - 1.6.2. Oliguric, Anuric or Polyuric? How to Differentiate Between the 3
  - 1.6.3. Treatment, Monitoring and Follow-Up







- 1.7. Physiology and Clinical Manifestations of Reproductive System
  - 1.7.1. Physiology of Genital Apparatus
  - 1.7.2. Clinical Signs Associated with Reproductive System
- 1.8. Male Genital Apparatus
  - 1.8.1. Genital Examination
  - 1.8.2. Differential of Male Reproductive Diseases
  - 1.8.3. Therapeutic Options and Guidelines
- 1.9. Female Genital Apparatus
  - 1.9.1. Genital Examination
  - 1.9.2. Differential of Female Reproductive Diseases
  - 1.9.3. Follow-Up of Gestation
  - 1.9.4. Therapeutic Options and Guidelines
- 1.10. Genitourinary Emergencies
  - 1.10.1. Urinary Obstruction
  - 1.10.2. Uroabdomen
  - 1.10.3. Pyometra
  - 1.10.4. Prolapse and Paraphimosis



*This program allows you to combine your professional and work activities so that you can advance your career in a comfortable and practical way”*

# 05 Methodology

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

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







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

## At TECH we use the Case Method

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

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



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



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

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

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





## Relearning Methodology

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

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



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

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

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

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

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

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



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



### Study Material

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

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



### Latest Techniques and Procedures on Video

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



### Interactive Summaries

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

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



### Additional Reading

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







#### Expert-Led Case Studies and Case Analysis

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



#### Testing & Retesting

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



#### Classes

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

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



#### Quick Action Guides

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



06

# Certificate

The Postgraduate Certificate in Genitourinary System Disorders in Small Animals guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate issued by TECH Global University.





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



This program will allow you to obtain your **Postgraduate Certificate in Genitourinary System Disorders in Small Animals** endorsed by **TECH Global University**, the world's largest online university.

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

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

Title: **Postgraduate Certificate in Genitourinary System Disorders in Small Animals**

Modality: **online**

Duration: **6 weeks**

Accreditation: **6 ECTS**



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

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



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Genitourinary System  
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