

# Postgraduate Certificate Animal Health





## Postgraduate Certificate Animal Health

- » Modality: online
- » Duration: 12 weeks
- » Certificate: TECH Technological University
- » Dedication: 16h/week
- » Schedule: at your own pace
- » Exams: online

Website: [www.techtitute.com/in/veterinary-medicine/postgraduate-certificate/animal-health](http://www.techtitute.com/in/veterinary-medicine/postgraduate-certificate/animal-health)

# Index

01

Introduction

---

*p. 4*

02

Objectives

---

*p. 8*

03

Course Management

---

*p. 12*

04

Structure and Content

---

*p. 16*

05

Methodology

---

*p. 22*

06

Certificate

---

*p. 30*

01

# Introduction

In wildlife management, health surveillance and compliance with monitoring and action protocols are especially necessary in the event of the appearance of signs and new disease cases.

This program will analyze the regulatory framework of wildlife diseases in detail, as well as action protocols in case of signs or suspicion of the main diseases associated with wildlife.



**Nipah virus**

Result

**Positive**

“

*Do not miss the opportunity to study this Postgraduate Certificate in Animal Health at TECH. It's the perfect opportunity to stand out and advance your career”*

Unlike other programs, the Postgraduate Certificate in Animal Health approaches wildlife management from an interdisciplinary point of view.

Human presence and alteration of the environment has led to the establishment of new patterns for infectious diseases that favor the spread of pathogens.

The striking increase in the number of cases of certain zoonoses is mainly due to factors such as globalization, which leads to an exponential increase in international traffic and, therefore, greater likelihood of disease transmission; as well as the emergence of both risks and unknown diseases, also creating new opportunities to increase genetic variability.

Wildlife management covers a wide spectrum of lines of research and action, in addition to the study of health surveillance and disease control, which is usually the general line of study in similar programs. However, in the future, veterinary professionals will have to face other lines of work in biodiversity conservation, which are also extensively developed throughout the syllabus.

Nowadays, it is difficult to find a program like this one, which provides students with specialized education in the use of the most common software in daily practice. Today there are many computer tools available that are considered necessary and that facilitate and increase the level of quality of work.

Species biology is not only based on theoretical knowledge, but also on spatial and geolocalized data. The only way to understand and visualize how species are distributed is by using Geographic Information Systems to represent and model the data.

This program is designed by professors with the highest recognized degree of specialization, thus guaranteeing its quality in all aspects of wildlife, both clinical and scientific. A unique opportunity to specialize in an area where professional positions are in high demand, from the hands of outstanding professionals.

This **Postgraduate Certificate in Animal Health** contains the most complete and up-to-date scientific program on the market. The most important features include:

- ◆ Case studies presented by experts in Wildlife
- ◆ The graphic, schematic, and practical contents with which they are created, provide scientific and practical information on the disciplines that are essential for professional development
- ◆ New developments in Wildlife Management
- ◆ Practical exercises where self-assessment can be used to improve learning
- ◆ Special emphasis on innovative methodologies in Wildlife Management
- ◆ 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



*Train at TECH and learn the concepts associated with wildlife populations and the processes and interactions that take place*

“

*This Postgraduate Certificate is the best investment you can make when selecting a refresher program in Animal Health”*

Its teaching staff includes professionals belonging to the veterinary field, who contribute their work experience to this program, as well as renowned specialists from reference 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 specialization programmed to learn in real situations.

This program is designed around Problem-Based Learning, whereby the specialist must try to solve the different professional practice situations that arise throughout the program. For this, the professional will have the help of an innovative, interactive video system made by recognized and experienced experts in Wildlife.

*This program has the best didactic material, which will enable a contextual study that will facilitate your learning.*

*This 100% online Postgraduate Certificate will allow you to combine your studies with your professional work while increasing your knowledge in this field.*



# 02 Objectives

The Postgraduate Certificate in Animal Health is designed to facilitate the performance of veterinary professionals with the latest advances and most innovative strategies to in the sector.







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*You will learn to analyze one of the main threats to biodiversity loss, i.e., invasive alien species, establishing the main lines of action to manage them”*



## General Objectives

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- Discuss the international regulatory framework of Wildlife Management
- Examine the main implementation tools in biodiversity conservation
- Discuss the tools used in the three main areas of biodiversity conservation: sites, species and environmental conservation
- Establish management mechanisms in line with the regulations discussed
- Analyze the importance of health surveillance in Wildlife Management
- Examine the main action protocols in case of signs of disease
- Discuss the main Wildlife diseases
- Establish control methodologies before and after the appearance of new cases



*Seize the opportunity and take the step to get up to speed with the latest developments in Animal Health”*





## Specific Objectives

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- ◆ Understand the threats and factors that lead to the loss of natural resources and the extinction of species
- ◆ Define the main strategies used in endangered species conservation
- ◆ Compile actions to be carried out on habitats and on each of the links in the chain from diet onwards, framed within on-site management frameworks
- ◆ Develop captive breeding and reintroductions as two of the main off-site management mechanisms
- ◆ Define the overlap between forest management and species conservation
- ◆ Analyze the problem of invasive alien species and define the main lines of action in this area
- ◆ Identify the symptomatological pictures of the most relevant infectious and parasitic wildlife diseases
- ◆ Analyze the relevance of wildlife health status in public health and species conservation
- ◆ Examine the regulatory bases in wildlife health management with a focus on international regulations
- ◆ Compile the different sources of scientific animal health documentation and information
- ◆ Provide the necessary knowledge to prepare reports and projects
- ◆ Establish methodologies and strategies for preventive control of the main wildlife diseases
- ◆ Develop the measures for the elimination and disinfection of the affected fauna, as well as the correct surveillance of the health safety of the personnel in charge of such tasks

03

# Course Management

The teaching staff on the program includes leading experts in Animal Health, who contribute their work experience to this program. Professionals of recognized prestige have joined forces to offer you this high-level training program.





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*Our expert team of professors  
in Wildlife will help you achieve  
professional success”*

## Management



### Mr. Matellanes Ferreras, Roberto

- ♦ Degree in Environmental Sciences, Rey Juan Carlos University
- ♦ Master's Degree in Training Management Management and development of training plans, European University, Madrid
- ♦ Master's Degree in Big Data and Business Intelligence, Rey Juan Carlos University
- ♦ Course on Pedagogical Aptitude in Natural Sciences, Complutense University, Madrid
- ♦ Unmanned Aerial Vehicle Pilot, State Agency of Aviation Safety (AESA)
- ♦ Technician in Management of Protected Natural Spaces, Official College of Forestry Technical Engineers
- ♦ Technician in Environmental Impact Assessment, Polytechnic University, Madrid
- ♦ Professor of Geographic Information Systems applied to the conservation of species and protected natural areas
- ♦ Conservation and national biodiversity management projects linked to species and protected natural areas
- ♦ Management, documentation and monitoring of species distribution inventories
- ♦ Territorial analyses for the reintroduction of protected species
- ♦ Analysis of the conservation status of species linked to the Natura 2000 Network for European sexennial reports (Directive 92/43/EEC and Directive 79/409/EEC)
- ♦ Inventory management of national and international wetland natural areas

**Ms. Pérez Fernández, Marisa**

- ♦ Forestry Polytechnic University of Madrid
- ♦ Master's Degree in Integrated Quality, Environmental and Occupational Health and Safety Management Systems, OHSAS
- ♦ San Pablo CEU University
- ♦ 3rd Year, Degree in Mechanical Industrial Engineering UNED
- ♦ Teaching Experience: Forest management for biodiversity conservation, natural inventories, integrated management of the natural environment, sustainable game management Technical bases and Technical Hunting Plans
- ♦ Senior Technician in Environmental Assessment, Engineering and Environmental Quality Management TRAGSATEC
- ♦ Technical Assistant TECUM Project (Tackling Environmental Crimes through standardized Methodologies) B&S Europe
- ♦ Field instructor on the Forest Arsonist Profiling project Environmental and Urban Planning Prosecutor's Office General Prosecutor's Office of the State
- ♦ Environmental Technician SEPRONA Spanish Civil Guard Headquarters
- ♦ Environmental Work Management of the Fraga-Mequinenza Gas Pipeline ENDESA Gas Transporter IIMA CONSULTING FIRM

# 04

# Structure and Content

The content has been structured and designed by leading professionals in the Animal Health sector, who have extensive experience and recognized prestige in the profession, backed by the volume of cases reviewed, studied, and diagnosed, and who have extensive knowledge of new technologies applied to Veterinary Science.





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

## Module 1. Wildlife Management

- 1.1. Management of Protected Natural Areas
  - 1.1.1. Introduction
  - 1.1.2. Restrictions
- 1.2. Management of Endangered Species Conservation
  - 1.2.1. Action Plans
  - 1.2.2. Recovery Plans
- 1.3. Natura 2000 Management
  - 1.3.1. Indicators
  - 1.3.2. Actions
- 1.4. Forest Management
  - 1.4.1. Forest Planning
  - 1.4.2. Management Projects
  - 1.4.3. Main Overlap between Forestry Management and Species Conservation
- 1.5. On-Site Management
  - 1.5.1. Actions on the Habitat
  - 1.5.2. Actions on Prey and Predators
  - 1.5.3. Actions on Diet
- 1.6. Off-Site Management
  - 1.6.1. Captive Breeding
  - 1.6.2. Reintroductions
  - 1.6.3. Translocations
  - 1.6.4. Recovery Centers
- 1.7. Invasive Alien Species (IAS) Management
  - 1.7.1. Strategies and Plans
- 1.8. Management Tools: Access to Information
  - 1.8.1. Data Sources
- 1.9. Management Tools: Strategies
  - 1.9.1. Main Lines
  - 1.9.2. Strategies against the Main Threats



## Module 2. Wildlife Disease

- 2.1. Regulatory Framework
  - 2.1.1. International Regulations
  - 2.1.2. EU Standards
- 2.2. Wildlife Health Control
  - 2.2.1. Containment
  - 2.2.2. Contact Limitation
  - 2.2.3. Prevalence Reduction
    - 2.2.3.1. Eradicating Wild Hosts by Removal
    - 2.2.3.2. Reducing Wild Host Density
    - 2.2.3.3. Reducing Other Risk Factors
    - 2.2.3.4. Treatments and Vaccinations
- 2.3. Wild Disease Indicators
  - 2.3.1. Suspected Disease
    - 2.3.1.1. Action Protocol
  - 2.3.2. Confirmation of the Disease
    - 2.3.2.1. Action Protocol
  - 2.3.3. Management of Animal By-Products in Wildlife Diseases
  - 2.3.4. Sample Collection
    - 2.3.4.1. Birds
    - 2.3.4.2. Mammals
- 2.4. Wildlife Health Surveillance Plan
  - 2.4.1. Health Surveillance
    - 2.4.1.1. Geographical Scope
    - 2.4.1.2. Target Species
    - 2.4.1.3. Target Diseases
    - 2.4.1.4. Active Surveillance
    - 2.4.1.5. Passive Surveillance
  - 2.4.2. Zoonoses
    - 2.4.2.1. Viral
    - 2.4.2.2. Bacterial
    - 2.4.2.3. Parasitic

- 2.5. Capture, Removal and Disinfection of Affected Wildlife
  - 2.5.1. Capture
    - 2.5.1.1. Methods
  - 2.5.2. Elimination
    - 2.5.2.1. Methods
  - 2.5.3. Cleaning and Vector Control
    - 2.5.3.1. Disease Causing Agents
    - 2.5.3.2. Main Chemical Disinfectants
    - 2.5.3.3. Personal Safety Measures
- 2.6. Wildlife Disease: Ruminants
  - 2.6.1. Pasteurellosis
  - 2.6.2. Keratoconjunctivitis
  - 2.6.3. Scabies
  - 2.6.4. Tuberculosis
  - 2.6.5. Foot and Mouth Disease
  - 2.6.6. Ticks and Other Transmitted Diseases
  - 2.6.7. Limping
- 2.7. Wildlife Disease: Wild Boars
  - 2.7.1. Classical Swine Fever
  - 2.7.2. African Swine Fever
  - 2.7.3. Aujeszky's Disease
  - 2.7.4. Tuberculosis
  - 2.7.5. Foot and Mouth Disease
  - 2.7.6. Ticks and Other Transmitted Diseases
  - 2.7.7. Limping



- 2.8. Wildlife Disease: Carnivores
  - 2.8.1. Distemper
  - 2.8.2. Scabies
  - 2.8.3. Aujeszky's Disease
  - 2.8.4. Tuberculosis
  - 2.8.5. Ticks and Other Transmitted Diseases
- 2.9. Wildlife Disease: Birds
  - 2.9.1. Avian Influenza
  - 2.9.2. Newcastle Disease
  - 2.9.3. Botulism
  - 2.9.4. Nile Fever and Other Flaviviruses
- 2.10. Wildlife Disease: Lagomorphs
  - 2.10.1. Rabbit Hemorrhagic Disease
  - 2.10.2. Scabies
  - 2.10.3. Myxomatosis
  - 2.10.4. Tularemia and Yersiniosis
  - 2.10.5. Ticks and Other Transmitted Diseases



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



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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 Animal Health guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate issued by TECH Technological University.



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

This **Postgraduate Certificate in Animal Health** contains the most complete and up-to-date scientific program on the market.

After the student has passed the assessments, they will receive their corresponding **Postgraduate Certificate** issued by **TECH Technological University** via tracked delivery\*.

The certificate issued by **TECH Technological University** will reflect the qualification obtained in the Postgraduate Certificate, and meets the requirements commonly demanded by labor exchanges, competitive examinations and professional career evaluation committees.

Title: **Postgraduate Certificate in Animal Health**

Official N° of Hours: **300 h.**



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



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



## Postgraduate Certificate Animal Health

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## Animal Health

