

Postgraduate Diploma Infectious Diseases





Postgraduate Diploma Infectious Diseases

- » Modality: online
- » Duration: 6 months
- » Certificate: TECH Technological University
- » Dedication: 16h/week
- » Schedule: at your own pace
- » Exams: online

Website: www.techtitute.com/us/veterinary-medicine/postgraduate-diploma/postgraduate-diploma-infectious-diseases

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

Specialized knowledge in Infectious Diseases enables the veterinarian to work safely on their own or in hospitals that require veterinary personnel with a higher and advanced level than that of a recent graduate.

Internships with field veterinarians do not provide sufficient variety in the types of cases nor do they allow for in-depth knowledge of the problems that clinicians face every day. This program complements the practical training and may be helpful in applying for internship positions.





“

Large animals can have complex pathologies, so it is necessary to have specialized veterinarians who can treat them”

The Postgraduate Diploma in Infectious Diseases incorporates innovative knowledge, based on the latest scientific evidence, that allows veterinary professionals to stay up-to-date on the newest treatments and emerging diseases that affect large animals across the world as a consequence of globalization.

Horses are animals that are used both for leisure and as companion animals, as well as in different sports disciplines, which adds an important added economic value. It is essential to have a high level of knowledge in Internal Medicine to be able to work with these horses, since, due to their economic value, they are not readily accessible to clinicians with little training. The horse clinician faces the challenges posed by these patients on a daily basis. Gastrointestinal pathologies are the most frequent cause of emergency calls from owners. Many of these horses suffer from mild illnesses that are resolved with appropriate treatments, but a small group suffer very serious injuries that require surgical treatment. It is necessary to interpret the clinical signs of these patients promptly in order to improve their prognosis; this Postgraduate Diploma provides the main tools to successfully deal with these cases.

Sports medicine forms an important block within Equine Internal Medicine, since many of the horses we have today are dedicated to sporting activities. Working with these horses is very rewarding but also requires a high degree of specialization, especially in pathologies that affect the cardiorespiratory system. This Postgraduate Diploma generates specialized knowledge that allows the equine clinician to evaluate the sporting prognosis of those patients with conditions that influence their athletic performance.

This Postgraduate Diploma is designed by professors with the highest recognized degree of specialization, thus guaranteeing its quality in all aspects, both clinical and scientific, in large animals.

This **Postgraduate Diploma in Infectious Diseases** is the most complete and up-to-date scientific program on the market. The most important features include:

- » Clinical cases presented by experts in Infectious Diseases
- » 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
- » The latest developments in Infectious Diseases
- » Practical exercises where self-assessment can be used to improve learning
- » Its special emphasis on innovative methodologies in Infectious Diseases
- » 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



Get trained with us and learn how to diagnose and treat diseases in large animals, in order to improve their quality of life"

“ *This Postgraduate Diploma is the best investment you can make when choosing a refresher program to expand your existing knowledge of Infectious Diseases”*

It includes, in its teaching staff, professionals from the field of veterinary medicine, who bring to this training the experience of their work, in addition to recognized 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 training programmed to train 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 renowned and experienced experts in Internal Medicine in Large Animals.

This program comes with the best educational material, providing you with a contextual approach that will facilitate your learning.

A 100% online program will allow you to combine your studies with your professional work while increasing your knowledge in this field.



02

Objectives

The Postgraduate Certificate in Infectious Diseases is aimed at facilitating the veterinary professional's performance with the latest advances and most innovative treatments in the sector.





“

*This is the best option to learn
about the latest advances in
Infectious Diseases”*



General Objectives

- » Provide specialized knowledge on the most common neurological problems
- » Identify all clinical signs associated with each neurological disease
- » Establish the specific clinical approach for each pathology
- » Determine the prognosis and the most appropriate treatment in each case
- » Establish how to carry out correct analytical interpretation both in adult as well as geriatric and newborn animals
- » Develop the basics of hemostasis and coagulation, as well as the pathologies associated with their failure.
- » Establish the different types of immunological reactions, as well as the diseases they cause
- » Generate advanced knowledge in acid-base interpretation
- » Specify the basics of fluid therapy
- » Examine the clinical approach of the different infectious and parasitic diseases in large animals
- » Compile the complementary methods available to diagnose the main infectious and parasitic pathologies
- » Determine the general and specific treatment for the main infectious and parasitic pathologies
- » Generate advanced knowledge on the prevention of the main infectious and parasitic diseases





Specific Objectives

Module 1. Neurological Alterations in Large Animals

- » Examine the specific anatomy, physiology and pathophysiology that underlies neurological disease in the large animals (ruminants, cattle, camelids and equidae).
- » Identify the main diseases affecting the central and peripheral nervous system
- » Specify the necessary information required in clinical examination of neurologic patients
- » Locate lesions in a patient that has suffered trauma to the central nervous system
- » Establish management measures and treatment protocols
- » Identify horses with spinal cord compressions and establish their sporting diagnosis
- » Recognize patients affected by parasitic illnesses and determine their treatment options
- » Identify the patients affected with viral diseases and establish management and containment measures
- » Recognize patients with neuromuscular junction disorders
- » Establish prognosis and treatment options for patients with neuromuscular junction pathologies
- » Establish the clinical signs of patients with congenital and degenerative alterations and the signs of patients with motor neurone alterations
- » Establish treatment and prognosis steps in intoxicated patients

Module 2. Laboratorial Diagnosis in Equidae Alterations of the hematopoietic system and immunology in major species

- » Develop an advanced methodology to carry out a correct diagnosis of red series and white series alterations
- » Identify and implement the necessary therapy in case of coagulation disorders
- » Perform basic cytological interpretation of blood smears, peritoneal fluid and cerebrospinal fluid
- » Perform a correct interpretation of analytical tests with biochemical alterations in adults and foals
- » Identify and treat immune-mediated pathologies
- » Carry out a complete analysis of the state of the acid-base in a critical patient
- » Implement an appropriate fluid therapy plan based on the patient's imbalances

Module 3. Infectious and Parasitic Diseases in Large Animals

- » Identify the main infectious diseases that affect large animals
- » Establish differential diagnosis of the clinical signs in the main infectious pathologies in big animals
- » Propose a work methodology for the patient with infectious alterations
- » Provide specialized knowledge to treat and prevent the main infectious pathologies in large animals
- » Identify the clinical signs of parasitic diseases that affect large animals
- » Gain sound knowledge of the diagnostic procedures used in parasitology and their interpretation
- » Determine a theoretical and practical methodology for patients with parasitic diseases
- » Provide specialized knowledge to establish parasite control and management programs in large animals

03

Course Management

The program's teaching staff includes leading experts in Infectious Diseases who contribute their vast work experience to this training program. Professionals of recognized prestige have joined forces to offer you this high-level training.





“

*Our teaching team, experts in
Infectious Diseases, will help you
achieve professional success”*

Management



Dr. Martín Cuervo, María

- ♦ Doctor of Veterinary Medicine from the University of Extremadura. Doctoral thesis on Inflammation Markers in Horses in a Critical Condition, 2017
- ♦ Degree in Veterinary Medicine from the University of Cordoba
- ♦ President of the Scientific Committee in the National Congress of the Spanish Association of Equine Veterinarians (AVEE), 2020
- ♦ Member of the Scientific Committee in the International Committee of the International Purebred Spanish Horse Show (SICAB), 2020
- ♦ Veterinarian, member of the European Board of Veterinary Specialization (EBVS) and the European College of Equine Internal Medicine (ECVIM)
- ♦ Member of the Spanish Association of Equine Veterinarians (AVEE)
- ♦ Head of the Equine Internal Medicine Services in the University of Extremadura (from 2015-present)



Dr. Barba Recreo, Marta

- ♦ PhD in Biomedical Sciences, Auburn University, Alabama, USA, in 2016
- ♦ Diplomate of the American College of Internal Medicine, Large Animal in 2015
- ♦ Degree in Veterinary Medicine from the University of Zaragoza in 2009
- ♦ Head of the Equine Internal Medicine Service, Clinical Veterinary Hospital, CEU Cardenal Herrera University, Valencia



Professors

Dr. Viu Mella, Judit

- » Cum Laude PhD in Animal Medicine and Health from the Autonomous University of Barcelona in 2013
- » Outstanding award for the thesis “Desequilibrios ácido-base en potros recién nacidos y caballos adultos evaluados por el enfoque cuantitativo.” (Acid-base imbalances in newborn foals and adult horses evaluated by quantitative approach)
- » Diplomate of the American College of Internal Equine Medicine in 2019
- » Degree in Veterinary Medicine from the Autonomous University of Barcelona 2003
- » Member of the Spanish Association of Specialist Veterinarians (AVEDE)
- » Equine Internal Medicine and Anesthesia Services in the Sierra de Madrid Veterinary Hospital
- » Anesthetist in the equine unit of the UAB Veterinary Clinical Hospital (May 2007 to August 2018)

Dr. Villalba Orero, María

- » Doctor in Veterinary Medicine, Madrid Complutense University. Doctoral thesis in Equine Anesthesia
- » Degree in Veterinary Medicine from the Complutense University Madrid
- » Associate Professor in the Department of Animal Medicine and Surgery at the Complutense University Madrid, with teaching experience in equine internal medicine, specializing in cardiology
- » Professor of Pathophysiology at the Alfonso X el Sabio University
- » Scientific advisor of cardiovascular and pulmonary ultrasound in the Nation Center of Cardiovascular Research
- » Private Equine Cardiology Service, field of work in Spain

04

Structure and Content

The structure of the contents has been designed by the best professionals in the field of Infectious Diseases, with extensive experience and recognized prestige in the profession, backed by the volume of cases reviewed, studied and diagnosed, and with extensive knowledge of new technologies applied to veterinary medicine.



“

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. Neurological Alterations in Large Animals

- 1.1. Neurological Examination and Main Diagnostic Tests
 - 1.1.1. Clinical Examination and Clinical Signs
 - 1.1.2. Dynamic Evaluation and Locating the Lesion
 - 1.1.3. Diagnostic Tests: Cerebrospinal Fluid Extraction and Analysis
 - 1.1.4. Other Diagnostic Tests
- 1.2. Epilepsy, Convulsions, Congenital and Degenerative Diseases in Horses
 - 1.2.1. Epilepsy and Convulsions
 - 1.2.2. Sleep Disorders
 - 1.2.3. Cerebellar Abiotrophy
 - 1.2.4. Shivers
 - 1.2.5. Degenerative Myeloencephalopathy
 - 1.2.6. Polineuritis
- 1.3. Central Nervous System Trauma and Vestibular Syndrome in Equidae
 - 1.3.1. Cerebral Trauma
 - 1.3.2. Spinal Cord Trauma
 - 1.3.3. Vestibular Syndrome
- 1.4. Compressive Diseases of the Spinal Cord in Horses
 - 1.4.1. Pathogenesis and Clinical Signs
 - 1.4.2. Diagnosis
 - 1.4.3. Treatment and Prognosis
- 1.5. Viral Diseases That Affect the Central Nervous System (CNS) in Equidae
 - 1.5.1. Equine Herpesvirus Myeloencephalopathy
 - 1.5.2. Togavirus Encephalitis
 - 1.5.3. West Nile Virus Encephalitis
 - 1.5.4. Rabies
 - 1.5.5. Bornavirus and Other Viral Encephalitides
- 1.6. Other Diseases that Affect the CNS
 - 1.6.1. Equine Motor Neurone Disease (EMND)
 - 1.6.2. Grass Sickness (Equine Dysautonomia)
 - 1.6.3. Neoplasms
 - 1.6.4. Metabolic Alterations That Cause Neurological Symptomology
 - 1.6.5. Toxins
 - 1.6.6. Headsaking
 - 1.6.7. Lyme Disease
- 1.7. Tetanus and Botulism
 - 1.7.1. Tetanus
 - 1.7.2. Botulism
- 1.8. Bovine Neurological Diseases
 - 1.8.1. Examination of the Nervous System in Cattle
 - 1.8.2. Alterations that Mainly Affect the Brain in Cattle
 - 1.8.3. Alterations that Mainly Affect the Brainstem in Cattle
 - 1.8.4. Alterations that Mainly Affect the Cerebellum in Cattle
 - 1.8.5. Alterations that Mainly Affect the Spinal Cord in Cattle
 - 1.8.6. Alterations that Mainly Affect the Peripheral Nerves in Cattle
- 1.9. Neurological Diseases in Small Ruminants
 - 1.9.1. Examination of the Nervous System in Sheep and Goats
 - 1.9.2. Alterations that Mainly Affect the Brain in Small Ruminants
 - 1.9.3. Alterations that Mainly Affect the Brainstem in Small Ruminants
 - 1.9.4. Alterations that Mainly Affect the Cerebellum in Small Ruminants
 - 1.9.5. Alterations that Mainly Affect the Spinal Cord in Small Ruminants
- 1.10. Neurological Diseases in Camelids
 - 1.10.1. Examination of the Nervous System and Diagnostic Techniques in Camelids
 - 1.10.2. Congenital Pathologies and Development of the Nervous System
 - 1.10.3. Infectious Meningoencephalitis
 - 1.10.4. Main, Non-infectious Neuropathologies
 - 1.10.5. Secondary Neuropathologies
 - 1.10.6. Myopathies and Vertebral Pathologies
 - 1.10.7. Visual and Hearing Impairments of Neurological Origin

Module 2. Laboratorial Diagnosis in Equidae. Alterations of the Hematopoietic System and Immunology in Large Animals

- 2.1. Hematology in Adult Horses: Alterations in the Red Series
 - 2.1.1. Physiology of Red Blood Cells and Platelets
 - 2.1.2. Interpretation of Alterations in the Red Series
 - 2.1.3. Iron Metabolism
 - 2.1.4. Thrombocytopenia/Thrombocytosis
 - 2.1.5. Polycythemia
 - 2.1.6. Anemia
 - 2.1.6.1. Loss: Hemorrhage
 - 2.1.6.2. Destruction
 - 2.1.6.2.1. Infectious and Parasitic Diseases That Cause Anemia: Piroplasmosis, EIA and Other Diseases
 - 2.1.6.2.2. Immune-mediated Hemolysis
 - 2.1.6.2.3. Neonatal Isoerythrolysis
 - 2.1.6.2.4. Oxidative Damage
 - 2.1.6.3. Lack of Production
 - 2.1.6.3.1. Anemia Chronic Inflammation
 - 2.1.6.3.1. Myeloptosis/Aplasia Medular
 - 2.1.7. Physiology of the White Series
 - 2.1.8. Neutrophils
 - 2.1.9. Eosinophils
 - 2.1.10. Basophils
 - 2.1.11. Lymphocytes
 - 2.1.12. Mast Cells
 - 2.1.13. Leukaemias
- 2.2. Biochemistry in Adult Horses
 - 2.2.1. Renal Profile
 - 2.2.2. Liver Profile
 - 2.2.3. Acute Phase Proteins
 - 2.2.4. Muscular Profile
 - 2.2.5. Other Determinants
- 2.3. Hematology and Biochemistry in Foals/ Geriatric Horses
 - 2.3.1. Differences in Hematology
 - 2.3.2. Differences in Biochemistry
 - 2.3.2.1. Differences in Renal Function
 - 2.3.2.2. Differences in Liver Function
 - 2.3.2.3. Differences in Muscular Profile
- 2.4. Immune Response of Foals and Geriatric Horses
 - 2.4.1. Peculiarities of the Immune System of Neonatal Foals
 - 2.4.2. Evolution of the Immune Response During the First Year of Age
 - 2.4.3. Senecundity: Peculiarities of the Geriatric Immune System
- 2.5. Hypersensitivity Reactions. Immune-Mediated Diseases
 - 2.5.1. Hypersensitivity Type 1
 - 2.5.2. Hypersensitivity Type 2
 - 2.5.3. Hypersensitivity Type 3
 - 2.5.4. Hypersensitivity Type 4
 - 2.5.5. Immunocomplexes Manifestations of Immune-Mediated Diseases
- 2.6. Hemostasis Disorders
 - 2.6.1. Primary Hemostasis
 - 2.6.2. Secondary Hemostasis
 - 2.6.3. Coagulation Based on Intrinsic and Extrinsic Pathways vs. Cell-Based Coagulation Model (Initiation, Propagation and Amplification)
 - 2.6.4. Anticoagulation
 - 2.6.5. Fibrinolysis/Antifibrinolysis
 - 2.6.6. Disseminated Intravascular Coagulation
 - 2.6.7. Hemorrhagic Purpura
 - 2.6.8. Hereditary Problems
 - 2.6.9. Procoagulant and Anticoagulant Treatments

- 2.7. Basic Principles of Acid-Base Equilibrium. Fluid Therapy
 - 2.7.1. Introduction. Why is Acid-Base Equilibrium Important?
 - 2.7.2. Basic Concepts
 - 2.7.3. Protection Mechanisms: Short and Long-Term Slope Compensations
 - 2.7.4. Interpreting Methods
 - 2.7.5. Step by Step. How to Interpret the Acid-Base to Obtain Maximum Information
 - 2.7.5.1. Lactate
 - 2.7.5.2. Electrolytes
 - 2.7.5.2.1. Hyponatremia ($>145\text{mmol/l}$)
 - 2.7.5.2.2. Hyponatremia (Horse $<134\text{ mmol/l}$)
 - 2.7.5.2.3. Hyperpotassemia or Hyperkalemia ($>4,5\text{mmol/l}$)
 - 2.7.5.2.4. Hypotassemia or Hypokalemia ($<3.5\text{ mmol/l}$)
 - 2.7.5.2.5. Hyperchloremia ($>110\text{ mmol/l}$)
 - 2.7.5.2.6. Hypochloremia ($<90\text{ mmol/l}$)
 - 2.7.5.3. SIDm
 - 2.7.5.4. ATO
 - 2.7.5.5. SIG
 - 2.7.6. Classification of the Alterations
 - 2.7.7. Basic Principles of Fluid Therapy
 - 2.7.8. Body Composition of Fluids and Electrolytes
 - 2.7.9. Estimation of Dehydration
 - 2.7.10. Types of Fluid
 - 2.7.10.1. Crystalloid Solutions
 - 2.7.10.1.1 Ringer's Lactate
 - 2.7.10.1.2 Isofundin®
 - 2.7.10.1.3 Saline Solution (0.9% NaCl)
 - 2.7.10.1.4 Sterovet®
 - 2.7.10.1.5 Bicarbonate
 - 2.7.10.1.6 Glucosaline 0,3/3,6%
 - 2.7.10.1.3 Hypertonic Saline Solution (7.5% NaCl)
 - 2.7.10.2 Colloidal Solutions
 - 2.7.10.2.1 IsoHes®
 - 2.7.10.2.2 Plasma
- 2.8. Interpretation of Laboratory Analysis and Immunological and Hematopoietic Alterations in Cattle
 - 2.8.1. Blood Count
 - 2.8.2. Blood Biochemistry
 - 2.8.3. Allergies
 - 2.8.4. Immune-Mediated Anemia
 - 2.8.5. Thrombocytopenia
- 2.9. Interpretation of Laboratory Analysis and Immunological and Hematopoietic Alterations in Small Ruminants
 - 2.9.1. Blood Count
 - 2.9.2. Anemia and the FAMACHA System
 - 2.9.3. Blood Biochemistry
- 2.10. Interpretation of Laboratory Analysis and Immunological and Hematopoietic Alterations in Camelids
 - 2.10.1. Blood Count:
 - 2.10.2. Anemia
 - 2.10.3. Blood Biochemistry

Module 3. Infectious and Parasitic Diseases in Large Animals

- 3.1. Prevention and Control of Infectious Diseases
 - 3.1.1. Laboratory Diagnostic Tests
 - 3.1.2. Antimicrobial Tests and Resistances
 - 3.1.3. Use of Vaccines
 - 3.1.4. Biosecurity and Control Measures
- 3.2. Main Infectious and Contagious Diseases in Horses
 - 3.2.1. Notifiable Diseases
 - 3.2.2. Diseases Caused by Bacteria
 - 3.2.3. Viral diseases
 - 3.2.4. Diseases Caused by Fungi
- 3.3. Main Infectious and Contagious Diseases in Cattle
 - 3.3.1. Notifiable Diseases
 - 3.3.2. Diseases Caused by Bacteria
 - 3.3.3. Viral diseases
 - 3.3.4. Diseases Caused by Fungi
 - 3.3.5. Diseases Caused by Prions

- 3.4. Main Infectious and Contagious Diseases in Small Ruminants
 - 3.4.1. Notifiable Diseases
 - 3.4.2. Diseases Caused by Bacteria
 - 3.4.3. Viral diseases
 - 3.4.4. Diseases Caused by Fungi
 - 3.4.5. Diseases Caused by Prions
- 3.5. Main Infectious and Contagious Diseases in Camelids
 - 3.5.1. Notifiable Diseases
 - 3.5.2. Diseases Caused by Bacteria
 - 3.5.3. Viral diseases
 - 3.5.4. Diseases Caused by Fungi
- 3.6. Main Parasites Affecting Horses
 - 3.6.1. Hemoparasites
 - 3.6.2. Small Strongyls or Cyathostomes
 - 3.6.3. Big Strongyls
 - 3.6.4. Ascarids
 - 3.6.5. Other Nematodes
 - 3.6.6. Cestodes
- 3.7. Main Parasites Affecting Cattle
 - 3.7.1. Hemoparasites
 - 3.7.2. Gastrointestinal Nematodes
 - 3.7.3. Nematodes That Affect the Respiratory Tract
 - 3.7.4. Cestodes
 - 3.7.5. Trematodes
 - 3.7.6. Coccidia
- 3.8. Main Parasites Affecting Small Ruminants
 - 3.8.1. Hemoparasites
 - 3.8.2. Gastrointestinal Nematodes
 - 3.8.3. Nematodes That Affect the Respiratory Tract
 - 3.8.4. Cestodes
 - 3.8.5. Trematodes
 - 3.8.6. Resistance to Anthelmintics in Small Ruminants
 - 3.8.7. Management, Treatment and Control Programs (FAMACHA)

- 3.9. Main Parasites Affecting Camelids
 - 3.9.1. Hemoparasites
 - 3.9.2. Coccidia
 - 3.9.3. Nematodes
 - 3.9.4. Cestodes
- 3.10. Prevention and Treatment of Parasitic Diseases
 - 3.10.1. Diagnostic Techniques
 - 3.10.2. Therapeutic Principles
 - 3.10.2. Resistance Development
 - 3.10.3. Management and Control Programs



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.





“

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.

“

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

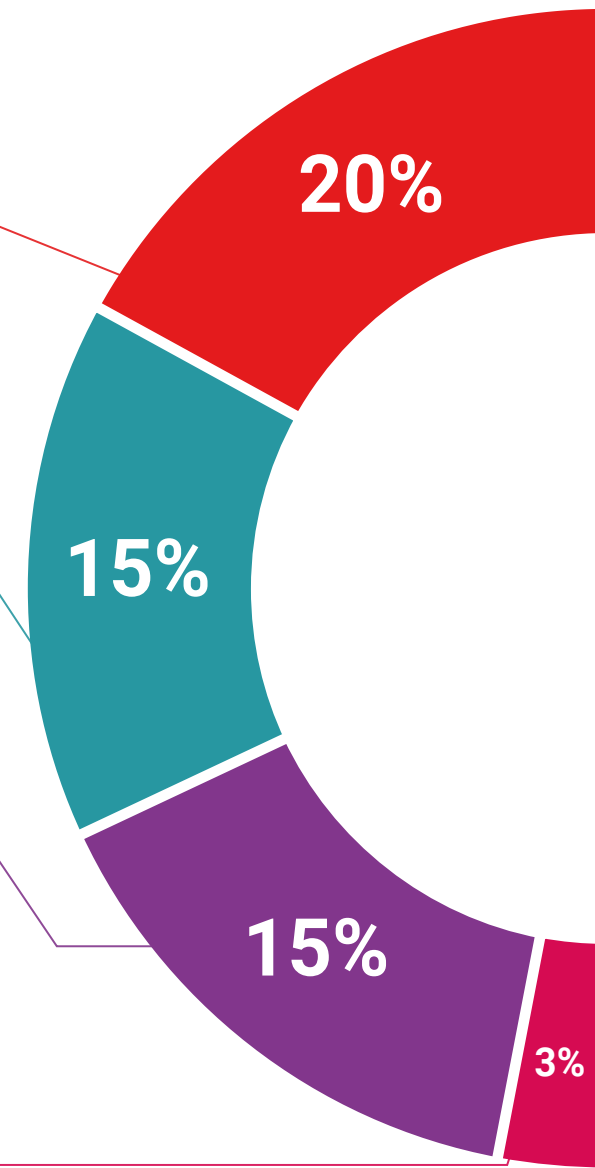
The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

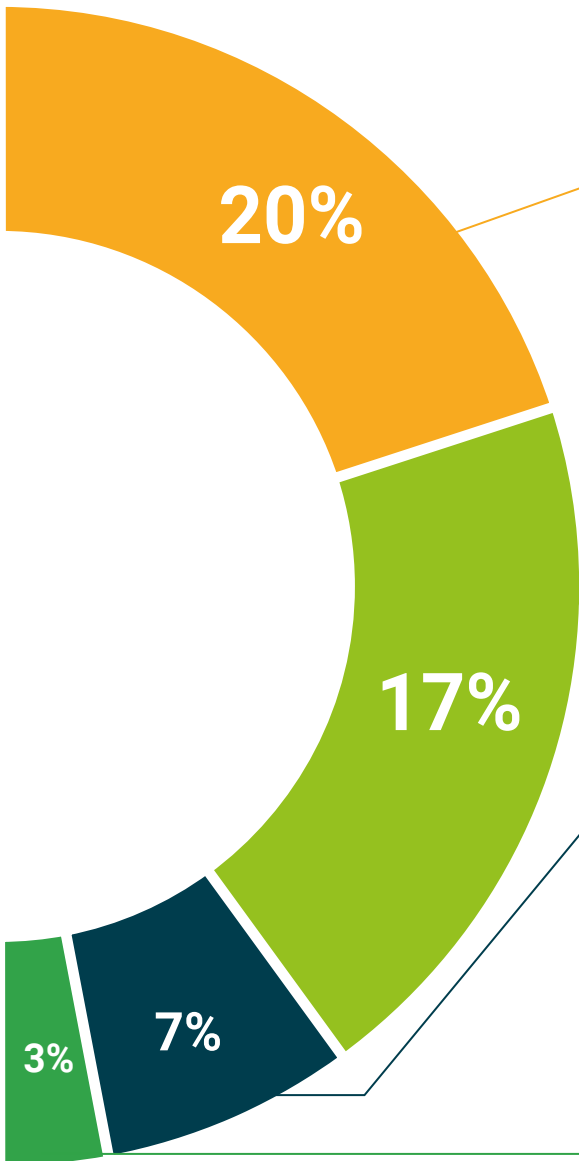
This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



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 Diploma in Infectious Diseases guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Diploma issued by TECH Technological University.



“

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

This **Postgraduate Diploma in Infectious Diseases** is 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 Diploma**, issued by **TECH Technological University** via tracked delivery*.

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

Title: **Postgraduate Diploma in Infectious Diseases**

Official N° of Hours: **450 h.**



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



Postgraduate Diploma Infectious Diseases

- » Modality: online
- » Duration: 6 months
- » Certificate: TECH Technological University
- » Dedication: 16h/week
- » Schedule: at your own pace
- » Exams: online

Postgraduate Diploma Infectious Diseases