

# Postgraduate Certificate

## Hematopoietic Tumors in Small Animals





## Postgraduate Certificate Hematopoietic Tumors in Small Animals

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

Website: [www.techitute.com/pk/veterinary-medicine/postgraduate-certificate/hematopoietic-tumors-small-animals](http://www.techitute.com/pk/veterinary-medicine/postgraduate-certificate/hematopoietic-tumors-small-animals)

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01

# Introduction

This high-level program deals with the different hematopoietic tumors, differentiating between those affecting the canine and feline species. It presents all aspects related to canine multicentric lymphoma, from its etiology to its treatment and prognosis.







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*Become one of the most demanded professionals today: Specialize in Hematopoietic Tumors in Small Animals with this comprehensive Postgraduate Certificate”*

Hematopoietic system tumors encompass a complex group of neoplasms that originate from blood cells or their precursors in the bone marrow. If the neoplasm originates in the lymphatic organs, it is called lymphoma or lymphosarcoma (LSA); if it originates in the bone marrow, it is called leukemia and myeloma, among others.

Furthermore, histiocytic diseases are those that originate from histiocytes or leukocytes subsets that come from the bone marrow. Histiocytes can differentiate into two cell lines, monocyte/macrophage or dendritic cells. Such differentiation will determine how these diseases manifest.

This training covers the non-multicentric presentation of canine lymphoma and its treatment, together with the new therapeutic strategies available so far. Also, the diagnostic and therapeutic approach to canine leukemia will be presented.

At the same time, the different presentations of feline lymphoma, both gastrointestinal and mediastinal as well as extranodal, will be discussed.

There will be two sections of special interest devoted to myeloproliferative disorders in the canine species, including myeloid leukemia and plasma cell tumors.

Finally, the histiocytic diseases affecting the canine and feline species will be described. In this way, their different presentations will be known in order to determine the best therapeutic and prognostic approach.

As it is an online Postgraduate Certificate, students are not constrained by fixed schedules, nor are they required to commute to a different physical location. All of the content can be accessed at any time of the day, so you can balance your working or personal life with your academic life.

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

- » The latest technology in online teaching software
- » A highly visual teaching system, supported by graphic and schematic contents that are easy to assimilate and understand
- » Practical cases presented by practising experts
- » State-of-the-art interactive video systems
- » Teaching supported by telepractice
- » Continuous updating and recycling systems
- » Autonomous learning: full compatibility with other occupations
- » Practical exercises for self-evaluation and learning verification
- » Support groups and educational synergies: questions to the expert, debate and knowledge forums
- » Communication with the teacher and individual reflection work
- » Content that is accessible from any fixed or portable device with an Internet connection
- » Complementary documentation banks permanently available, even after the Postgraduate Certificate



*Take the opportunity to learn about the latest advances in this area in order to apply it to your daily practice”*

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*Achieve comprehensive and relevant training in Hematopoietic Tumors in Small Animals with this highly effective Postgraduate Certificate and open new pathways for your professional progress”*

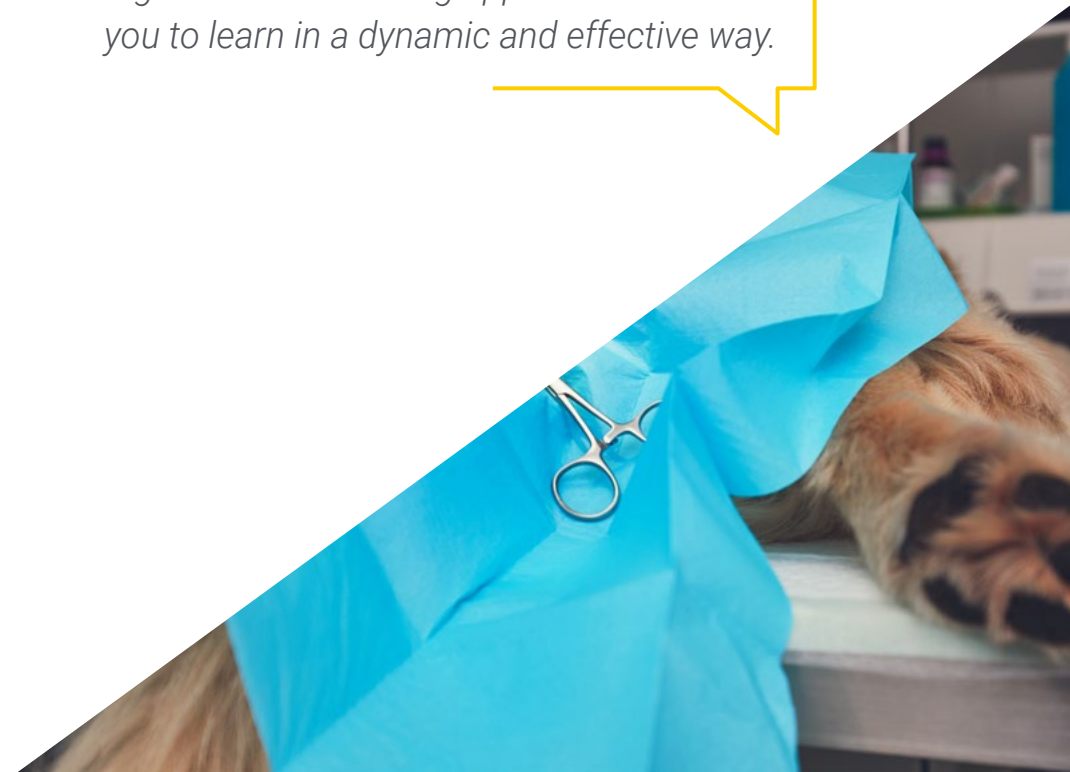
Our teaching staff is made up of professionals from different fields related to this specialty. That way, TECH ensures to offer the updating objective it intends to provide. A multidisciplinary team of professionals trained and experienced in different environments, who will cover the theoretical knowledge in an efficient way, but, above all, will bring the practical knowledge from their own experience to the course: one of the differential qualities of this course.

This mastery of the subject is complemented by the effectiveness of the methodology used in the design of this Postgraduate Certificate in Hematopoietic Tumors in Small Animals. Developed by a multidisciplinary team of *e-learning* experts, it integrates the latest advances in educational technology. That way, students will study with a range of easy-to-use and versatile multimedia tools that will give them the necessary skills needed during training

The design of this program is based on Problem-Based Learning: an approach that views learning as a highly practical process. To achieve this remotely, TECH will use telepractice: with the help of an innovative interactive video system and *Learning from an Expert*, the student will be able to acquire the knowledge as if they were facing the scenario they are learning at that moment. A concept that will allow students to integrate and memorize what they have learnt in a more realistic and permanent way.

*Our innovative telepractice concept will give you the opportunity to learn through an immersive experience, which will provide you with a faster integration and a much more realistic view of the contents: “Learning from an Expert”.*

*With a methodological design based on proven teaching techniques, this program will take you through different teaching approaches to allow you to learn in a dynamic and effective way.*





# 02 Objectives

The objective is to train highly qualified professionals for work experience. An objective that is complemented, moreover, in a global manner, by promoting human development that lays the foundations for a better society. This objective is focused on helping medical professionals reach a much higher level of expertise and control. A goal that, in just a few months, can be achieved with a high intensity and precision Postgraduate Certificate.







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*If your objective is to broaden your skills set to include new paths of success and development: this is the Postgraduate Certificate for you: a training that aspires to excellence”*



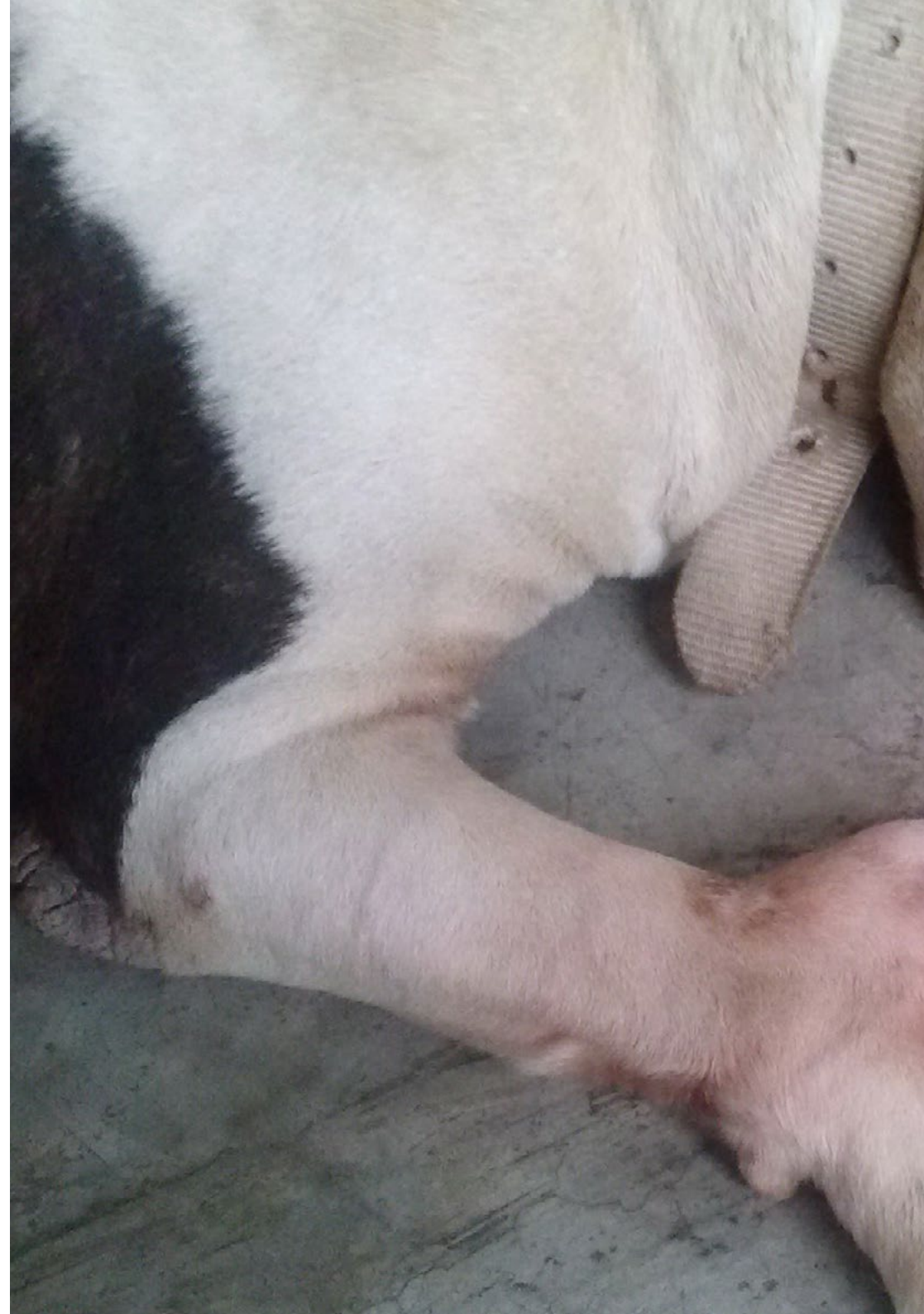
## General Objectives

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- » Identify hematopoietic neoplasms and histiocytic diseases in cats and dogs
- » Evaluate the different presentations of hematopoietic tumors, knowing their etiology, pathology, classification and staging
- » Specify specific treatments for each type of hematopoietic tumor or histiocytic disease
- » Establish knowledge of the prognosis of hematopoietic tumors and histiocytic diseases



*A path to achieve development and professional growth that will propel you towards a greater level of competitiveness in the employment market”*







## Specific Objectives

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- » Define the appropriate diagnosis and clinical staging of canine and feline lymphoma
- » Compile the different classifications of canine and feline lymphoma
- » Establish the different treatments for induction, reinduction and rescue of canine and feline lymphoma
- » Discuss new treatment strategies and future alternatives for canine lymphoma
- » Examine the diagnostic and therapeutic approach to both canine and feline lymphocytic leukemia
- » Implement the diagnostic and therapeutic approach to myeloproliferative diseases
- » Demonstrate knowledge of the different aspects of tumor behavior in histiocytic diseases
- » Substantiate the appropriate prognosis for each hematopoietic neoplasm and histiocytic disease according to its presentation and response to treatment



03

# Course Management

For our course to be of the highest quality, we are proud to work with a teaching staff of the highest level, chosen for their proven track record. Professionals from different areas and fields of expertise that make up a complete, multidisciplinary team. A unique opportunity to learn from the best.







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*A unique opportunity to learn from internationally renowned professors, with teaching, clinical and research experience”*

## Management



### Dr. Ortiz Díez, Gustavo

- ♦ Head of Small Animal Unit at Complutense Clinical Veterinary Hospital
- ♦ Associate Professor, Department of Animal Medicine and Surgery, Faculty of Veterinary Medicine, Complutense University of Madrid
- ♦ PhD and Undergraduate Degree in Veterinary Medicine from the UCM
- ♦ Graduate in Psychology, UNED (2020)
- ♦ AVEPA Accredited Soft Tissue Surgery
- ♦ Member of the scientific committee and current president of GECIRA (AVEPA's Soft Tissue Surgery Specialty Group)
- ♦ Master's Degree in Research Methodology in Health Sciences from the UAB
- ♦ Specialist in Traumatology and Orthopedic Surgery in Companion Animals by the UCM. Degree in Small Animal Cardiology from the UCM
- ♦ Courses of laparoscopic and thoracoscopic surgery at the Minimally Invasive Center Jesús Usón. Accredited in functions B, C, D and E of Experimentation Animals, Community of Madrid
- ♦ Degree in Emotional Intelligence, UR Completed training in Gestalt psychology
- ♦ ICT competencies course for teachers by UNED

## Professors

### Dr. Hernández Bonilla, Milagros

- » Veterinarian in charge of the Internal Medicine and Oncology Service, La Salle Veterinary Center, 2017 - Present
- » Graduated in Veterinary Medicine, 2011 University of León
- » Master's Degree in Veterinary Research and Food Science and Technology University of León, 2011 - 2012
- » General Practitioner Certificate Program in Oncology 2017 - 2018 Improve International, Madrid
- » In the process of accreditation in Veterinary Oncology, AVEPA (GEVONC)
- » Member of AVEPA (Association of Veterinary from Specialists in Small Animals)
- » Member of GEVONC (Group of specialists in Veterinary Oncology)
- » Member of the Official College of Veterinarians Asturias (331930)
- » Royal College of Veterinary Surgeons N° 7369353
- » 2012 - 2014 internship in Emergency and Intensive Care, Veterinary Hospital of the University of Murcia
- » 2014-2017 Veterinarian in different private centers in Asturias. Spain

### Dr. Montoya Landa, Blanca

- » Veterinarian in the Internal Medicine, Hospitalization and Emergencies Area, San Antón de Colmenar Viejo Veterinary Hospital
- » Collaboration in the Oncology Service, Complutense University of Madrid Veterinary Hospital
- » Degree in Veterinary Medicine, Complutense University Madrid
- » Training in oncology and attended multiple seminars and congresses



*An impressive teaching staff, made up of professionals from different areas of expertise, will be your teachers during your training: a unique opportunity not to be missed"*

# 04

# Structure and Content

The content of this Postgraduate Certificate has been developed by the different experts on this course, with a clear purpose: to ensure that our students acquire each and every one of the necessary skills to become true experts in this field.

A complete and well-structured program that will take you to the highest standards of quality and success.







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*A complete program that will take you through the exhaustive training necessary to intervene as a specialist in the theoretical and practical aspects of Hematopoietic Tumors in Small Animals”*

## Module 1. Hematopoietic Tumors

- 1.1. Hematopoietic System Tumors (I): Canine Lymphoma (I)
  - 1.1.1. Etiology
  - 1.1.2. Classification and Pathology
  - 1.1.3. Clinical Signs
  - 1.1.4. Diagnosis
  - 1.1.5. Clinical Status
- 1.2. Hematopoietic System Tumors (II): Canine Lymphoma (II)
  - 1.2.1. Multicentric Lymphoma Treatment
    - 1.2.1.1. Re-Induction and Salvage Chemotherapy
    - 1.2.1.2. Strategies to Improve Treatment Effectiveness
    - 1.2.1.3. Immunotherapy and Other Treatments
- 1.3. Hematopoietic System Tumors (III): Canine Lymphoma (III)
  - 1.3.1. Extranodal Lymphoma Treatment
  - 1.3.2. Canine Lymphoma Prognosis
- 1.4. Hematopoietic System Tumors (IV): Canine Lymphoma (IV)
  - 1.4.1. Lymphocytic Leukemia
  - 1.4.2. Incidence, Etiology, Pathology and Classification
  - 1.4.3. Clinical Signs and Diagnosis
  - 1.4.4. Treatment
  - 1.4.5. Prognosis
- 1.5. Hematopoietic System Tumors (V): Feline Lymphoma (I)
  - 1.5.1. Incidence, Etiology and Pathology in Feline Lymphoma
  - 1.5.2. Gastrointestinal / Dietary Lymphoma
- 1.6. Hematopoietic System Tumors (VI): Feline Lymphoma (II)
  - 1.6.1. Peripheral Lymph Node Lymphoma
    - 1.6.1.1. Mediastinal Lymphoma



- 1.6.2. Extranodal Lymphoma
  - 1.6.2.1. Nasal Lymphoma
  - 1.6.2.2. Renal Lymphoma
  - 1.6.2.3. Central Nervous System Lymphoma
  - 1.6.2.4. Cutaneous Lymphoma
  - 1.6.2.5. Subcutaneous Lymphoma
  - 1.6.2.6. Laryngeal Lymphoma
  - 1.6.2.7. Ocular Lymphoma
  - 1.6.2.8. Felines Lymphoma Prognosis
- 1.7. Hematopoietic System Tumors (VII): Feline Lymphoma (III)
  - 1.7.1. Feline Leukemia, Myeloproliferative Disorders and Myelodysplasia
- 1.8. Hematopoietic System Tumors (VIII)
  - 1.8.1. Canine Acute Myeloid Leukemia, Myeloproliferative Neoplasms, and Myelodysplasia
    - 1.8.1.1. Incidence, Risk Factors
    - 1.8.1.2. Pathology
    - 1.8.1.3. Acute Myeloid Leukemia
  - 1.8.2. Myeloproliferative Neoplasms
    - 1.8.2.1. Polycythemia Vera
    - 1.8.2.2. Chronic Myelogenous Leukemia
      - 1.8.2.2.1. Eosinophilic and Basophilic Leukemia
      - 1.8.2.2.2. Essential Thrombocythemia/Primary Thrombocytosis
- 1.9. Other Bone Marrow Disorders
  - 1.9.1. Myelofibrosis
  - 1.9.2. Myelodysplastic Syndromes
- 1.10. Hematopoietic System Tumors (IX): Plasma Cell Tumors
  - 1.10.1. Multiple Myeloma
  - 1.10.2. Solitary and Extramedullary Plasmacytic Tumors
  - 1.10.3. Canine Histiocytic Disease: Feline Histiocytic Disease
  - 1.10.4. Canine Histiocytic Disease
    - 1.10.4.1. Cutaneous Histiocytoma
    - 1.10.4.2. Cutaneous Langerhans Cell Histiocytosis
    - 1.10.4.3. Reactive Histiocytosis
  - 1.10.5. Histiocytic Sarcoma
  - 1.10.6. Hemophagocytic Histiocytic Sarcoma
  - 1.10.7. Feline Histiocytic Disease
  - 1.10.8. Feline Histiocytic Sarcoma
  - 1.10.9. Progressive Feline Histiocytosis
  - 1.10.10. Pulmonary Langerhans Cell Histiocytosis



*This program will allow you to advance in your career comfortably"*



# 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

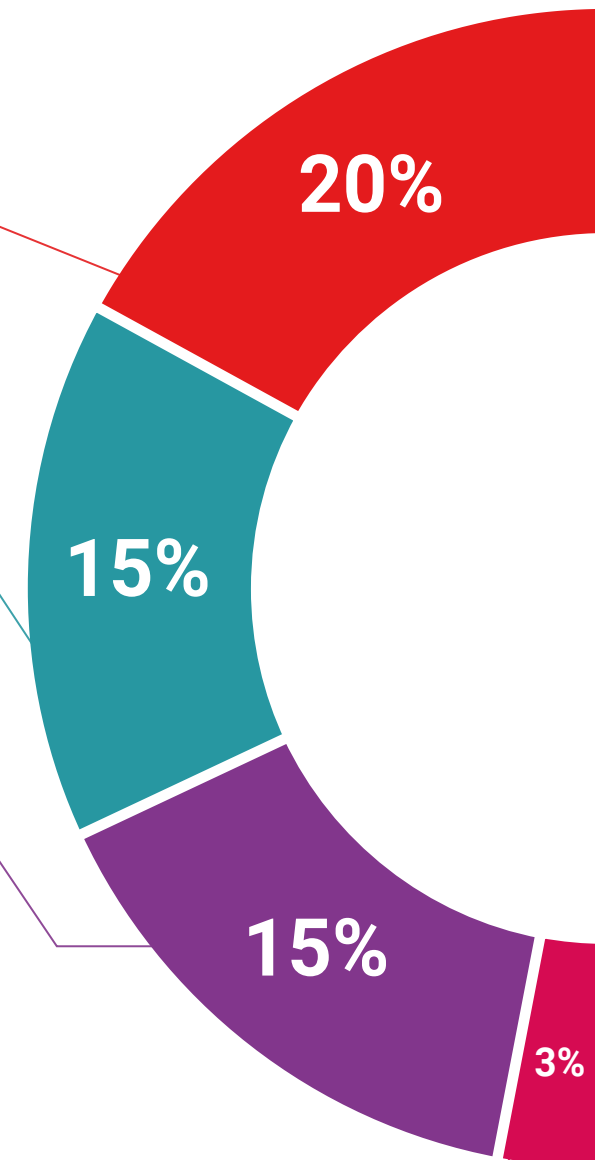
The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

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 Hematopoietic Tumors in Small Animals 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 Hematopoietic Tumors in Small Animals** 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 Postgraduate Certificate, and meets the requirements commonly demanded by job markets, competitive examinations and professional career evaluation committees.

Title: **Postgraduate Certificate in Hematopoietic Tumors in Small Animals**

Official N° of Hours: **150 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 Hematopoietic Tumors in Small Animals

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

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