Hybrid Professional Master's Degree

Minimally Invasive Veterinary Surgery in Small Animals

tech technological university

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Minimally Invasive Veterinary Surgery in Small Animals

Course Modality: **Hybrid (Online + Clinical Internship)**
Duration: **12 months**
Certificate: **TECH Technological University**
Teaching Hours: **1,620 h.**
Website: **www.techtitute.com/us/veterinary-medicine/hybrid-professional-master-degree/hybrid-professional-master-degree-minimally-invasive-veterinary-surgery-small-animals**

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01

Introduction

In recent years, minimally invasive veterinary techniques for small animals have advanced considerably, making practices such as laparoscopy, thoracoscopy and endoscopy the order of the veterinarian's day. This forces professionals to update their knowledge to be at the forefront of the latest advances in the profession and this can be achieved with educational activities such as this, which give the student not only the opportunity to obtain the most complete and updated theoretical knowledge of the market, but also to carry out a practical stay in a prestigious veterinary center where they can put into action everything they have learned. Therefore, through this program, the Clinical Veterinarian will acquire up-to-date, practical, scientifically rigorous and useful knowledge to apply immediately in their daily clinical practice.

Master all the techniques of minimally invasive veterinary surgery in a theoretical and practical way by taking this complete Hybrid Professional Master's Degree will be an easy task to accomplish"

Minimally invasive techniques used in veterinary medicine for the diagnosis and treatment of various diseases found in small animals began 20 years ago and have grown exponentially in the last decade. This growth, which goes hand in hand with the growth of Human Medicine in this field, has been due to several factors: technical development, equipment and instruments, which increasingly offer higher quality images and are more affordable, the development of specific diagnostic and therapeutic techniques in this field, as well as professionals, increasingly trained, which include, preferably, the approach, through these minimally invasive techniques, most of their clinical activity, in addition to owners increasingly concerned about the health of their pets who demand more specialized clinical services, more accurate clinical diagnostics and less invasive treatments which results in less pain and shorter hospital stays for their pets.

For this reason, the Hybrid Professional Master's Degree in Minimally Invasive Veterinary Surgery in Small Animals develops an exhaustive, relevant and practical update on the different diseases in which these techniques can be applied. Aspects of the approach/management and newer strategies in the field of minimally invasive techniques in small animal veterinary medicine and surgery are detailed. All this through 1,500 hours of theoretical and additional content that a team of teachers specialized in the area has selected for this educational experience.

Once the assessment has been passed, the graduate will have access to a 3-week internship in a prestigious clinical center. During the stay, the professional will be able to see real cases alongside a professional team of reference in the veterinary area, applying the most innovative state-of-the-art procedures. In this way, the activities will be directed to the development and improvement of the competencies necessary for the provision of veterinary care in areas and conditions that require a high level of qualification, and are oriented to the specific program for the exercise of the activity, in a safe environment and high professional performance.

This **Hybrid Professional Master's Degree in Minimally Invasive Veterinary Surgery in Small Animals** contains the most complete and up-to-date scientific program on the market. The most important features include:

- Development of more than 100 clinical cases presented by veterinary surgery professionals and university professors with extensive experience in minimally invasive techniques
- The graphic, schematic, and practical contents with which they are created provide scientific and practical information on the disciplines that are essential for professional practice
- Veterinary patient assessment and monitoring, the latest international recommendations in minimally invasive surgery
- Comprehensive plans for minimally invasive surgical approach for small animals
- All of this will be complemented by 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
- In addition, you will be able to carry out a clinical internship in one of the best veterinary centers in the world

Add to your online study the surgical practices in a prestigious veterinary center with the highest quality standards and the highest level of technology"

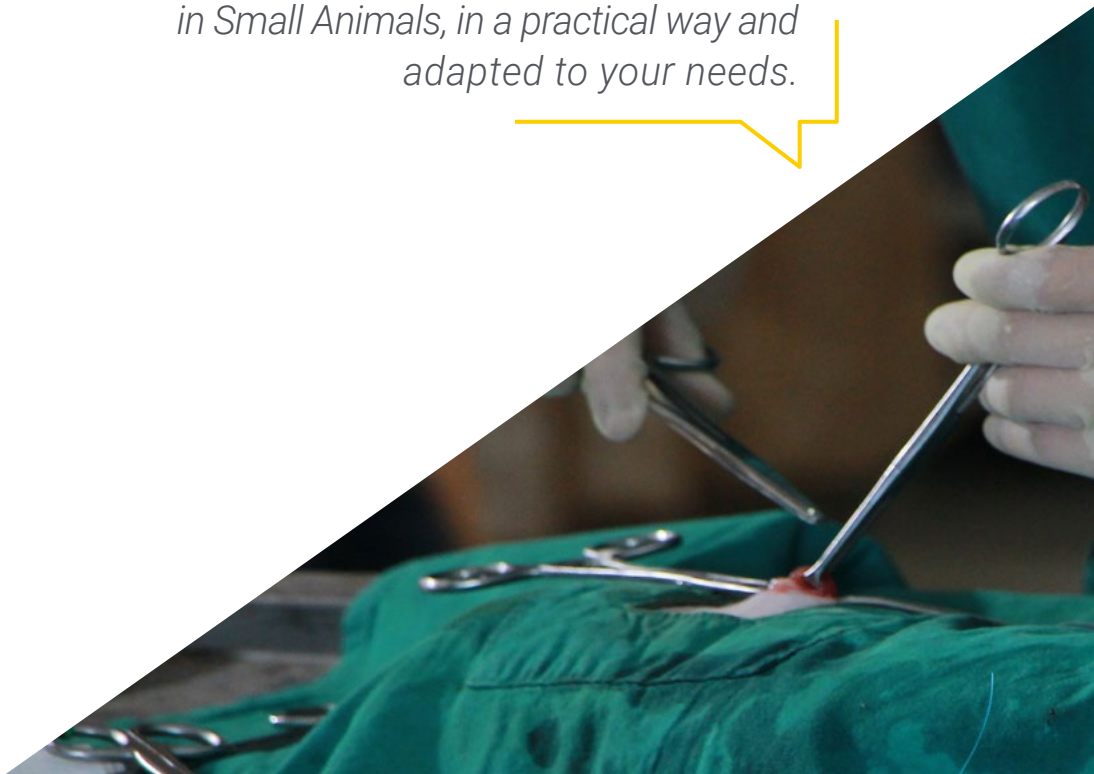
Take an intensive 3-week internship in a first class veterinary center and acquire all the knowledge to grow personally and professionally"

Undoubtedly, having the opportunity to catch up with the most complete and cutting-edge theoretical and practical content is the best way to internalize the knowledge.

Update your knowledge through the Hybrid Professional Master's Degree in Minimally Invasive Veterinary Surgery in Small Animals, in a practical way and adapted to your needs.

In this proposal for a Master's Degree, of a professionalizing nature and hybrid learning modality, the program is aimed at updating veterinary professionals who perform their functions in minimally invasive surgery units in small animals, and who require a high level of qualification. The contents are based on the latest scientific evidence, and oriented in a teaching manner to integrate theoretical knowledge into veterinary practice, and the theoretical-practical elements will facilitate the updating of knowledge and allow decision making in patient management.

Thanks to their multimedia content developed with the latest educational technology, they will allow the veterinary professional to obtain situated and contextual learning, i.e. a simulated environment that will provide immersive learning programmed to train in real situations. This program is designed around Problem-Based Learning, whereby the professional must try to solve the different professional practice situations that arise throughout the program. For this purpose, the students will be assisted by an innovative interactive video system created by renowned and experienced experts.



02

Why Study this Hybrid Professional Master's Degree?

Veterinary Medicine has experienced an exponential growth in recent years, not only because of the advances that have been made in the knowledge of animal anatomy and physiology, but also because of the increasingly strong commitment of people to respect the different species. This is why TECH, as a sign of its absolute support for this trend, has developed a complete program that combines the most avant-garde theory, based on the advances in minimally invasive veterinary surgery, with on-site practice in a leading clinical center.

By enrolling in this educational experience you will have access to the most advanced veterinary equipment and instrumentation, as well as the most innovative equipment cleaning and processing techniques"

1. Updating from the Latest Technology Available

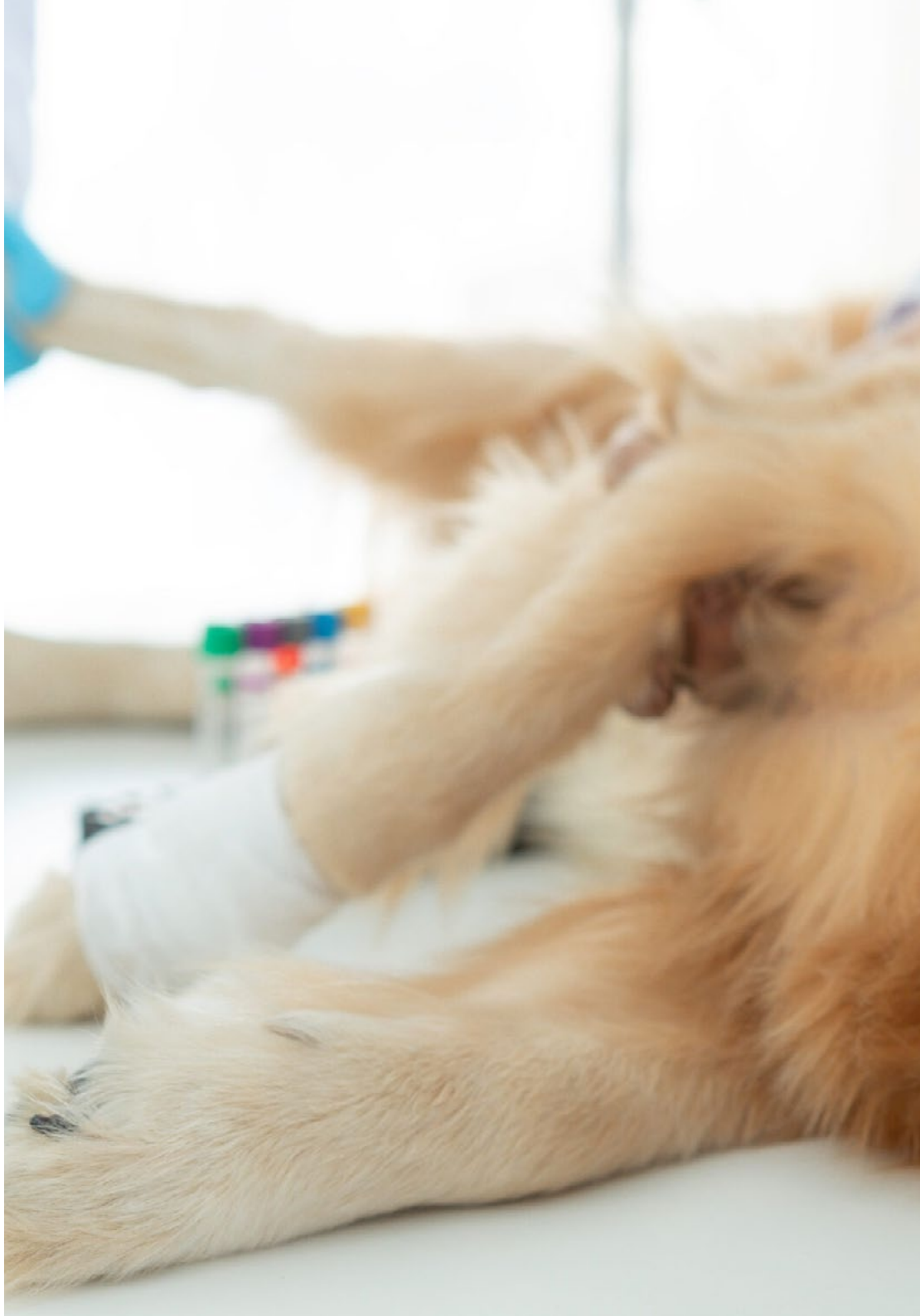
TECH is a pioneer in using not only the most innovative educational tools, but also the best pedagogical methodology. For this reason, and in order to continue along the same lines in the offer of its programs, one of the fundamental requirements that the clinical centers in which the internships are carried out must meet is to have the latest diagnostic and therapeutic equipment, so that the graduates, in addition to updating their knowledge in an efficient manner, can improve their skills in the use of the same.

2. Gaining In-depth Knowledge from the Experience of Top Specialists

All educational experiences offered by TECH have a team of teachers and a group of first class tutors, specialized, as it can not be otherwise, in the area in which the program is based. An example of this is this Hybrid Professional Master's Degree, in whose faculty the graduate will find significant support, backed by a wide and extensive experience in minimally invasive veterinary surgery in small animals.

3. Entering First-Class Clinical Environments

The students who decide to enroll in this Hybrid Professional Master's Degree will have access to hundreds of diverse clinical cases, all of them based on the most common consultations that come to the veterinary environment on a daily basis and in which a specialist in minimally invasive surgery is required. But you will also care for complex patients, in whose management you will have to invest all your knowledge in a collaborative manner with the rest of the professionals to try to diagnose and treat their ailments effectively.



4. Combining the Best Theory with State-of-the-Art Practice

When TECH refers to the very complete nature of this Hybrid Professional Master's Degree, it means that the graduates who access it will have the best theoretical and additional material, prepared by the teacher's team following the most demanding quality guidelines. And, after this period, you will have access to a stay in which you will have to use this knowledge to manage all types of patients, intertwining the concepts updated in the first part, with a first level practice.

5. Expanding the Boundaries of Knowledge

TECH's agreement with several veterinary clinics around the world allows it to offer internships at an international level, giving the students the possibility of choosing from a catalog of centers, as well as deciding whether they want to take the internship in their own country or abroad, to catch up with the latest developments in the profession based on the working models of the rest of the places.

You will have full practical immersion at the center of your choice"

03

Objectives

TECH, in its commitment to always offer the most complete and cutting-edge experiences, has developed this Hybrid Professional Master's Degree to provide graduates with all the resources they need to update their practice in a guaranteed way. In this way, you will be able to work with the most cutting-edge information in the veterinary sector, while at the same time perfecting your skills with a practical stay in a leading clinical center.

Delve into the most relevant theory in this field, subsequently applying it in a real work environment"

General Objective

- The Hybrid Professional Master's Degree in Minimally Invasive Veterinary Surgery in Small Animals has as its main objective to update the professional performance of the veterinarian dedicated to the surgical area. This is done through the latest advances and the most innovative treatments in the sector. In this way, through a program that perfectly combines theory and practice, veterinarians will be able to position themselves as a reference in this area of knowledge, being able to apply minimally invasive surgical techniques correctly and efficiently to their patients

If your goal is to grow in your profession and position yourself as an expert veterinarian in minimally invasive surgical techniques, then this program is perfect for you"

Specific Objectives

Module 1. Basic Principles in a Laparoscopy

- Analyze the history and evolution of minimally invasive surgical techniques
- Establish the basic equipment and instruments needed to perform a laparoscopy
- Identify the complementary material used to perform laparoscopy such as electrosurgical units
- Develop a training program to gain the skills needed to perform laparoscopy surgery
- Evaluate the different techniques used in the laparoscopic approach to surgery
- Identify the different complications that could arise from the laparoscopic technique
- Analyze new approaches to laparoscopy surgery, such as single incision laparoscopy and NOTES

Module 2. Urinary, Reproductive and Digestive System Diseases

- Analyze the anatomy and physiology of the male and female reproductive system in detail
- Establish a diagnostic protocol for the most common male and female reproductive system diseases
- Identify the different therapeutic approaches for treating the most common diseases of the male and female reproductive system, taking into account both the traditional and minimally invasive options
- Describe the anatomy of the urinary apparatus: kidneys, ureters, bladder, urethra
- Develop a diagnostic protocol for the most common diseases of the urinary system
- Identify the different therapeutic options to address the most common diseases of the urinary system
- Describe the anatomy of the stomach, intestine, liver and spleen
- Establish a therapeutic protocol for digestive and liver diseases in small animals
- Analyze the different therapeutic options for the resolution of digestive and liver diseases

Module 3. Splenic, Extrahepatic, Endocrine and Upper Respiratory Tract Diseases

- Propose a diagnostic and therapeutic plan for splenic masses, focusing on hemangiosarcoma
- Analyze extrahepatic portosystemic shunt disease, reviewing the differing approaches found in the most up-to-date literature
- Describe the diagnostic protocol for the main diseases that require treatment via cholecystectomy
- Develop the most appropriate techniques and therapeutic plans to treat the most common diseases which affect the adrenal gland, such as adrenal tumors
- Develop the most appropriate techniques and therapeutic plans to treat the most common diseases which affect the endocrine pancreas, such as pancreatic tumors, specifically insulinoma
- Describe the anatomy of the nasal cavity, larynx, trachea and lungs in detail
- Establish a diagnostic and therapeutic protocol for brachycephalic syndrome, laryngeal paralysis, nasal tumors, nasal aspergillosis and nasopharyngeal stenosis

Module 4. Thoracic Cavity Diseases. Inguinal and Perineal Hernia. Laparoscopy and Thoracoscopy Anaesthesia

- Present the clinically relevant anatomy for the thoracic cavity
- Establish a diagnostic protocol and medical and surgical treatment for tracheal collapse disease
- Identify the steps for the diagnosis and resolution of pleural effusion
- Analyze the most frequent causes of pericardial effusion and its relationship with cardiac tumors
- Propose a diagnostic and therapeutic protocol for persistent right aortic arch disease
- Develop knowledge on the diagnosis, surgical therapies and prognosis of canine lung cancer
- Evaluate the various etiologies, diagnostic protocola and treatment and the evolution of thoracic masses in small animals
- Analyze the main consequences and complications that can arise in laparoscopic or thoracoscopic anesthesia

Module 5. Laparoscopic Techniques for the Reproductive, Endocrine, Splenic and Portosystemic Shunt Systems

- Develop minimally invasive techniques for procedures on the female reproductive system such as sterilization techniques, treatment of ovarian remnants and the excision of ovarian tumors
- Analyze the techniques and indications for minimally invasive insemination

- Identify the laparoscopy technique for abdominal cryptorchidism
- Describe technique and patient selection for laparoscopic adrenalectomy
- Demonstrate laparoscopy techniques for performing a pancreatic biopsy and pancreatectomies
- Analyze the minimally invasive techniques for attenuation of a portosystemic shunt
- Address technique and patient selection for laparoscopic surgery to perform a splenic biopsy and a splenectomy

Module 6. Laparoscopic Techniques for the Urinary and Digestive systems

- Develop knowledge of minimal invasion techniques for performing a laparoscopy-assisted cystoscopy
- Analyze the laparoscopy techniques and indications of renal biopsy
- Examine laparoscopy techniques for a ureteronephrectomy and renal cyst omentalization
- Describe advanced laparoscopic techniques for the urinary system, such as a ureterotomy, urethral reimplantation and insertion of an artificial bladder sphincter
- Present laparoscopic techniques, indications and complications for a liver biopsy and hepatectomy
- Demonstrate the laparoscopy techniques for performing a preventative gastropexy for a dog
- Describe the laparoscopy technique for examining the digestive system and the removal of foreign bodies from dogs

Module 7. Laparoscopic Techniques in Extrahepatic Biliary Tree, Inguinal and Perineal Hernias. Thoracoscopic Techniques. General, Pericardium, Pleural Effusion, Vascular Rings, and Mediastinal Masses

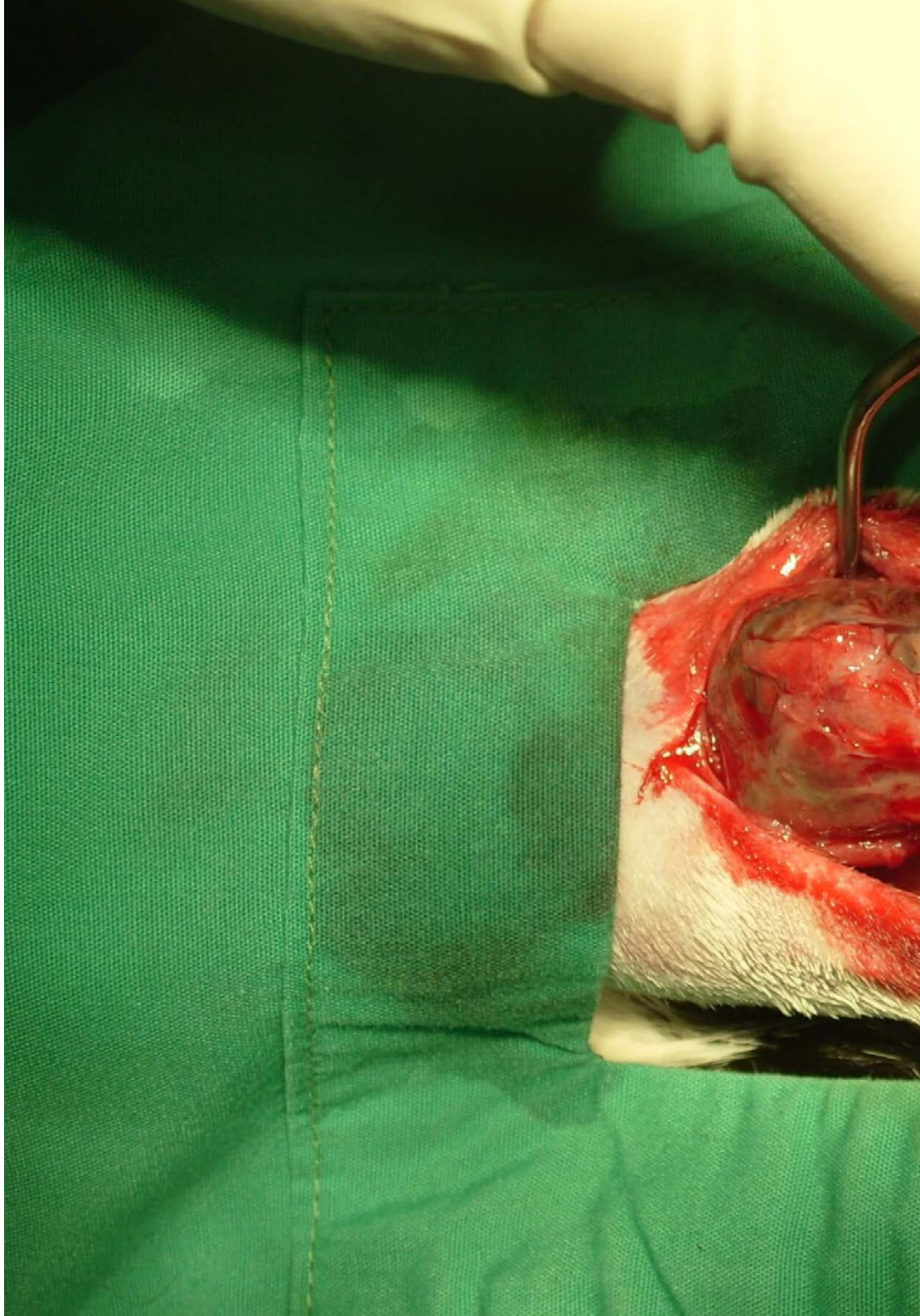
- To develop the techniques for performing cholecystectomy, in this way establishing a patient selection protocol
- Identify the laparoscopy technique for the resolution of a inguinal hernia
- Examine minimal invasion techniques as part of treatment for perineal hernias
- Develop understanding of the indications, approach technique and the complications for a thoracoscopy in small animals
- Describe the thoracoscopic techniques for pericardiectomy in dogs
- Review the indications for lung biopsy and lobectomy and study the thoracoscopic technique used to perform them
- Describe thoracoscopic technique for the resoltion of the right aortic arch in dogs
- Revise the different surgical options, including thoracoscopies, for the removal of surgical masses

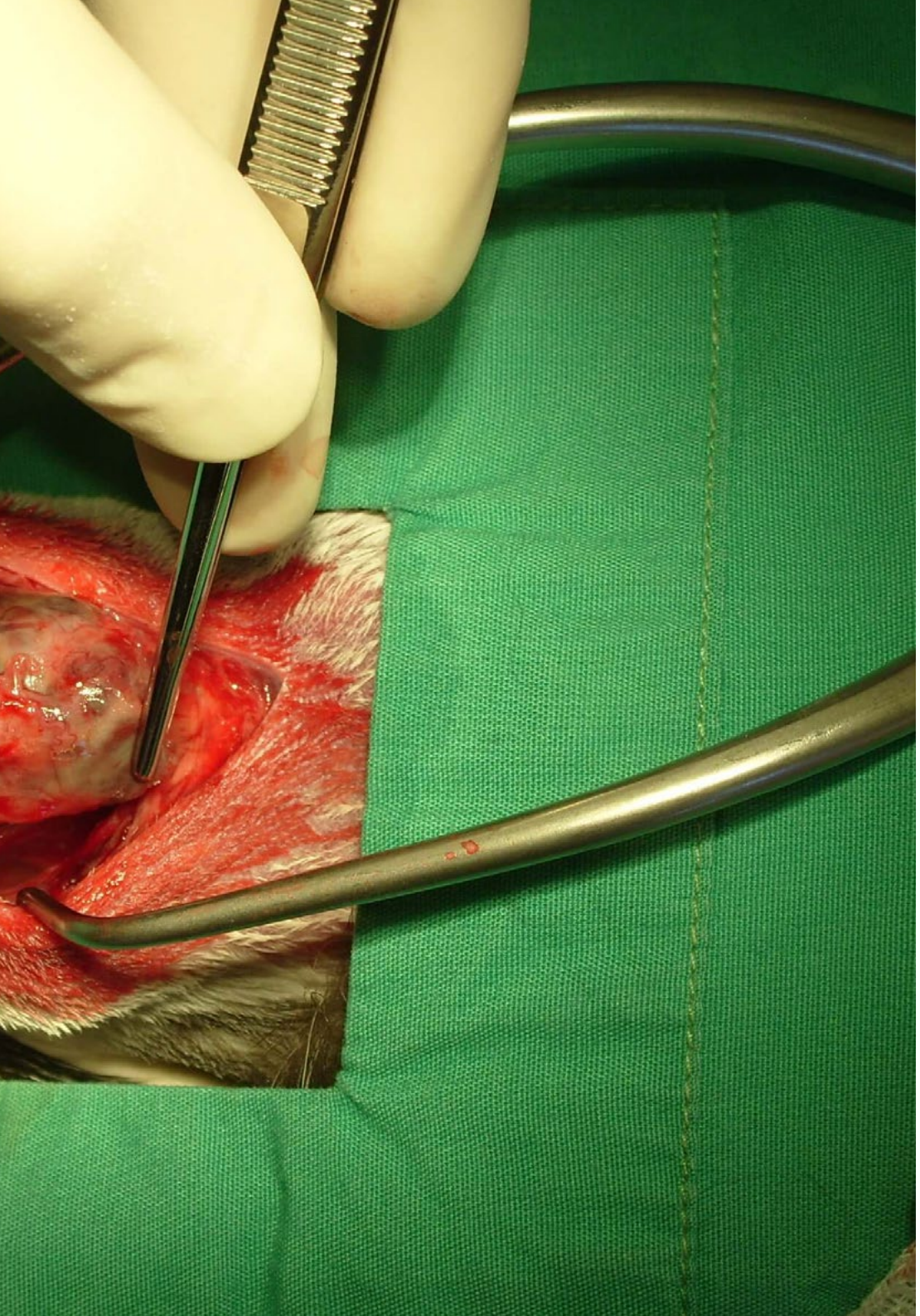
Module 8. Digective Endoscopy. General Information, Techniques and Most Common Diseases

- Review the history and new approaches to digestive endoscopy for small animals
- Compile the different ways to prepare a patient for a digestive endoscopy
- Present the equipment and specific instruments needed to perform a digestive endoscopy
- Describe the necessary protocol for cleaning instruments used in a digestive endoscopy
- Consolidate the understanding of the indications and most common complications of a digestive endoscopy
- Establish a protocol for upper and lower gastrointestinal examination (esophagoscopy, gastroscopy, duodenoscopy, ileoscopy, colonoscopy
- Analyze endoscopic techniques for the resolution of digestive foreign bodies, esophageal stricture, polypectomy
- Review the use of an endoscopy for inserting feeding tubes

Module 9. Respiratory System Endoscopy General Information, Techniques and Most Common Diseases

- Review the history and new approaches to respiratory endoscopy for small animals
- Identify the different ways to prepare a patient for a respiratory endoscopy
- Identify the equipment and specific instruments needed to perform a respiratory endoscopy
- Describe the necessary protocol for cleaning instruments used in a respiratory endoscopy
- Consolidate the understanding of the indications and most common complications of a respiratory endoscopy
- Establish a protocol for examination of the digestive tract: rhinoscopy, laryngoscopy, tracheoscopy and bronchoscopy
- Analyze endoscopic techniques for the treatment of respiratory foreign bodies and nasoesophageal stenosis
- Review the use of endoscopies for the treatment of tracheal and bronchial collapse and tracheal stenosis





Module 10. Urogenital System Endoscopy General Information, Techniques and Most Common Diseases

- Review the history and new approaches to endourological procedures for small animals
- Identify the equipment and specific instruments needed to perform a urogenital endoscopy
- Consolidate the understanding of the indications and most common complications of a urogentinal endoscopy
- Establish a protocol for examination of the female urinary and reproductive system: urethrocystoscopy, vaginoscopy and percutaneous nephroscopy
- Review the newest endourological techniques being performed in veterinary medicine such as UGELAB, PCCL, intracorporeal lithotripsy and urethral and urethral stenting
- Review the use of endoscopies for the treatment of tracheal and bronchial collapse and tracheal stenosis

04

Skills

After passing the assessments of the Hybrid Professional Master's Degree in Minimally Invasive Veterinary Surgery in Small Animals, the professional will have acquired the necessary skills for a quality and up-to-date practice based on the most innovative teaching methodology. In this way, and after having acquired the most important theoretical and practical knowledge in the field, veterinarians will be able to position themselves as a reference in the sector, giving their careers the definitive push towards excellence.

This program will allow you to work on perfecting the skills you need to be more effective and efficient in your daily work"

General Skills

- Carry out the techniques necessary to perform laparoscopic surgery
- Expand knowledge of the anatomy involved in minimally invasive techniques, in gastrointestinal and urinary diseases as well as male and female reproductive system diseases
- Perform a review and critical analysis of the therapeutic options in the case of an extrahepatic portosystemic shunt
- Perform surgical techniques on the thorax
- In-depth knowledge of minimally invasive techniques in diseases of the reproductive system, endocrine, splenic and extrahepatic vascular surgery
- Perform laparoscopic techniques on the urinary and digestive systems
- Apply newly acquired knowledge in order to select the optimal therapeutic treatment to treat inguinal and perineal hernias
- Safely perform a digestive endoscopy
- Know how to safely perform a respiratory endoscopy
- Safely perform minimally invasive techniques in urogenital procedures

Specific Skills

- Establish the basic equipment and instruments needed to perform a laparoscopy
- Compile the different therapeutic approaches for treating the most common diseases of the male and female reproductive system, taking into account both the traditional and minimally invasive options
- Describe the anatomy of the urinary apparatus: kidneys, ureters, bladder, urethra
- Develop a diagnostic protocol for the most common diseases of the urinary system
- Identify the different therapeutic options to address the most common diseases of the urinary system
- Analyze extrahepatic portosystemic shunt disease, reviewing the differing approaches found in the most up-to-date literature
- Establish a diagnostic protocol and medical and surgical treatment for tracheal collapse disease
- Analyze the techniques and indications for minimally invasive insemination
- Describe advanced laparoscopic techniques for the urinary system, such as a ureterotomy, urethral reimplantation and insertion of an artificial bladder sphincter
- Develop the techniques to perform a cholecystectomy, thus establishing a patient selection protocol
- Identify the equipment and specific instruments needed to perform a digestive endoscopy
- Compile the different ways to prepare a patient for a respiratory endoscopy

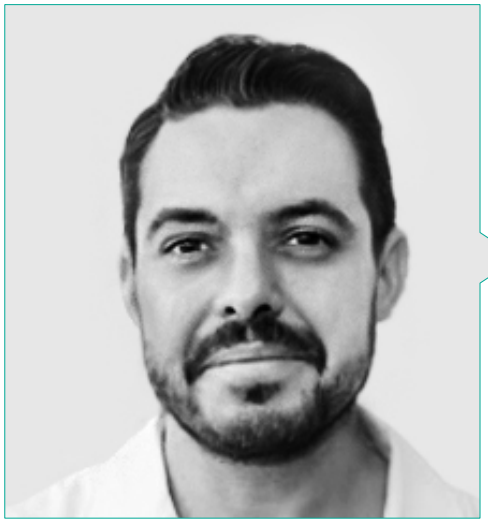
05

Course Management

Not all universities include teaching support in their programs, formed by specialized teams in the field developed in the program. However, TECH does. In addition, this university submits candidates to an exhaustive and demanding analysis, resulting in the conformation of the best faculty, made up of experts with a broad and extensive professional experience in the sector, as is the case of this Hybrid Professional Master's Degree in Minimally Invasive Veterinary Surgery in Small Animals.

A team of the highest level of the veterinary sector will guide you during the theoretical period, providing you with all the resources you need to update your knowledge in a guaranteed way"

Management



Dr. Ortiz Díez, Gustavo

- Head of the Small Animal Department at the Complutense Veterinary Clinic Hospital
- Chief of Soft Tissue Surgery and Minimally Invasive Procedures Service at 4 de Octubre Veterinary Hospital
- Accredited by the Spanish Association of Veterinarians Specializing in Small Animals (AVEPA) in Soft Tissue Surgery
- Master's Degree in Research Methodology in Health Sciences from Autonomous University of Barcelona
- Specialist in Traumatology and Orthopedic Surgery in Companion Animals, Complutense University of Madrid
- Degree in Small Animal Cardiology from the Complutense University of Madrid
- PhD and Degree in Veterinary Medicine from the Complutense University of Madrid
- 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
- ICT Competencies Course for Teachers, UNED
- Member of the Scientific Committee and current President of the Specialty Group of Soft Tissue Surgery of the Spanish Association of Veterinarians Specializing in Small Animals (AVEPA)

Dr. Casas García, Diego L.

- Head of the Endoscopy and MIS Service at the Canary Islands Minimally Invasive Veterinary Center
- Co-director of the Canary Islands Minimally Invasive Veterinary Center Las Palmas de Gran Canaria, Spain
- Director of the Scientific Committee of the Latin American Society of Veterinary Endoscopy (SLEV)
- Veterinarian at the Removed Veterinary Hospital
- Veterinarian at South Veterinary Center
- Veterinarian at the Indautxu Veterinary Clinic Center
- Author of the professional guide: Minimally Invasive Techniques in Small Animals
- PhD in Veterinary Medicine from the University of Extremadura
- Degree in Veterinary from the University of Las Palmas de Gran Canaria
- General Practitioner Certificate in Small Animal Medicine in Internal Medicine from European School for Advanced Veterinary Studies (ESAVS)
- Specialist in Endoscopy and Minimally Invasive Surgery in Small Animals by the University of Extremadura
- Certified by the University of Extremadura and the Jesús Usón Minimally Invasive Surgery Center (CCMIJU)
- First prize Miguel Luera, issued by the Spanish Association of Veterinarians Specializing in Small Animals (AVEPA)
- Member of the Iberian Association of Minimally Invasive Veterinary, MINIMAL

Professors

Dr. Arenillas Baquero, Mario

- Veterinarian in charge of the Animal Facility at the University Hospital of Getafe
- Veterinary Anesthesiology
- Degree in Veterinary Medicine from the Complutense University of Madrid
- European Diploma in the Specialty of Anesthesia and Analgesia by the European College of Veterinary Anaesthesia and Analgesia (ECVAA)
- Doctorate in Veterinary Medicine
- Associate Professor in the Veterinary Degree at the Faculty of Veterinary Medicine, Complutense University of Madrid
- Member of the Spanish Society of Veterinary Anesthesia and Analgesia (SEAAV), Specialty Group of Anesthesia and Analgesia of AVEPA and the AVA (Association of Veterinary Anaesthetists)

Dr. Carrillo Sánchez, Juana Dolores

- Specialist in Endoscopy and Minimally Invasive Surgery in Small Animals
- Pharmacodynamics
- Doctor from the University of Murcia
- General Practioner Certificate in Small Animal Surgery
- Degree in Veterinary Medicine from the University of Murcia
- Accreditation in the Specialty of Soft Tissue Surgery
- Specialist in Endoscopy and Minimally Invasive Surgery in Small Animals by the University of Extremadura
- Member of the Spanish Veterinary Association of Specialists in Small Animals (AVEPA)

Dr. Pérez Duarte, Francisco Julián

- Doctor in Laparoscopic Surgery and Researcher
- Founding Partner of the company VETMI, Minimally Invasive Veterinary Medicine
- Researcher of the Laparoscopy Unit at the Center for Minimally Invasive Surgery Jesús Usón (CCMIJU)
- CollaborignTeacher in the Department of Surgery of the UEX
- Founding member of MINIMAL (the Iberian Minimally Invasive Society)
- Doctor in Laparoscopic Surgery Cum Laude
- Degree in Veterinary Medicine from the University of Extremadura
- Member of the Spanish Association of Minimally Invasive Veterinary Medicine (AEVMI), Endoscopy Working Group of AVEPA (GEA)

Dr. Palacios Quirós, Nadia

- Veterinary Specialist in Endoscopy
- Head of the Diagnostic and Therapeutic Endoscopy Service at Novaclínica Veterinaries
- Collaborating Veterinarian at the Veterinary Center La Castellana
- Founder of the Retamas Veterinary Center Alcorcón, Madrid
- Specialist at the Castellana Veterinary Center
- Collaborator as Professor of theory and practice at the Faculty of Veterinary Medicine of the University Alfonso X el Sabio, teaching Endoscopy in the subject of Diagnostic Imaging
- Resident of Small Animals at the Complutense Veterinary Clinic Hospital
- Degree in Veterinary Medicine from the Complutense University of Madrid

Dr. Martínez Gomáriz, Francisco

- Specialist in Soft Tissue Surgery
- Founding Partner of the Bonafé Veterinary Clinic Murcia
- Director of the Murcian Center of Veterinary Endoscopy (CMEV)
- President of AVEPA's Endoscopy and Minimally Invasive Endoscopy Group
- Associate Professor of Anatomy at the Department of Anatomy and Embryology, Faculty of Veterinary Medicine, University of Murcia
- Professor of Veterinary Laparoscopy Courses at the Jesús Usón Center for Minimally Invasive Surgery
- Degree in Veterinary Medicine from the University of Murcia
- Doctor in Veterinary Medicine from the University of Murcia
- Accredited by AVEPA in Soft Tissue Surgery
- Specialist in Endoscopy and Minimally Invasive Surgery in Small Animals by the University of Extremadura, Spain
- Postgraduate Certificate in Small Animal Surgery and Anesthesia from the Autonomous University of Barcelona
- Postgraduate Certificate in Small Animal Surgery and Anesthesia from the Autonomous University of Barcelona
- Member of the Spanish Association of Veterinary Specialists in Small Animals (AVEPA), Spanish Association of Minimally Invasive Veterinary Medicine (AEVMI), Iberian Association of Minimally Invasive Veterinary Medicine (MINIMAL), Latin American Society of Veterinary Endoscopy (SLEV), AVEPA Endoscopy and Minimally Invasive Group (GEAMI), AVEPA Soft Tissue Surgery Group (GECIRA)

Dr. Gutiérrez del Sol, Jorge

- Specialist in Minimally Invasive Diagnostic and Surgical Techniques for Small Animals
- Founding Partner of the company VETMI, Minimally Invasive Veterinary Medicine
- Teacher of the company Vetability Veterinary Training in the Advanced Laparoscopy and Thoracoscopy courses
- PhD in Laparoscopic Surgery from the University of Extremadura
- Degree in Veterinary Medicine from the University of Extremadura
- Internship at the Jesús Usón Minimally Invasive Surgery Center
- Postgraduate degree in Veterinary Surgery from the University of Barcelona
- Master's Degree in Meat Science and Technology from the University of Extremadura
- Master's Degree in Clinical Veterinary Etiology from the University of Zaragoza
- Member of from Spanish Association of Minimally Invasive Veterinary Medicine (AEVMI), Endoscopy Working Group of AVEPA (GEA)

Dr. Fuertes Recuero, Manuel

- Veterinarian Specializing in Small Animals
- Veterinarian at Companion Care Sprowston Vets4pets Small Animal Clinic-Hospital. United Kingdom
- Veterinarian at the Los Madroños Veterinary Clinic
- Veterinarian at Valmeda Veterinary Clinic
- Degree in Veterinary Medicine, Complutense University Madrid

Dr. Bobis Villagrá, Diego

- Veterinary Expert in Minimally Invasive Small Animal Surgery
- Veterinarian in charge of the Soft Tissue Surgery, Endoscopy and Minimally Invasive Surgery Service at La Salle Veterinary Center
- Doctor of Veterinary Medicine from the University of León
- Graduate in Veterinary Medicine from the University of Leon
- Master's Degree in Veterinary Research and CTA from the University of León
- Master's Degree in Hospital Veterinary Clinic by the Veterinary Hospital of the University of León
- Postgraduate in Soft Tissue Surgery by the Veterinary Institute of Valencia
- Postgraduate Certificate in Small Animal Surgery and Anesthesia from the Autonomous University of Barcelona
- Member of the Spanish Association of Veterinarians Specializing in Small Animals (AVEPA), Iberian Association of Minimally Invasive Veterinarians (MINIMAL)

Dr. Lizasoain Sanz, Guillermo

- Veterinarian at the Veterinary Hospital La Moraleja of the Peñagrande Group
- Scientific Reviewer of the journal Treaty of Internal Medicine
- Degree in Veterinary Medicine, Complutense University Madrid
- Member of the Official College of Veterinarians of Madrid

You will combine theory and professional practice through a demanding and rewarding educational approach"

06

Educational Plan

TECH invests hundreds of hours in the development of each of its programs. For this reason, its qualifications are the result of the effort and perseverance of a team of experts who always strive to create the best content, adapted to the specifications of the sector, market demand and the immediate relevance of the subject matter. All of this is compiled in a convenient and accessible 100% online program that gives students the opportunity to organize their academic experience in a personalized way that is perfectly compatible with their work and personal life.

The use of the Relearning methodology in the development of the content of this program will allow you to update your praxis in a natural and progressive way: without having to invest extra hours in memorizing"

Module 1. Basic Principles in a Laparoscopy

1.1. History of Minimally Invasive Surgery
- 1.1.1. History of Laparoscopy and Thoracoscopy
- 1.1.2. Advantages and Disadvantages
- 1.1.3. New Perspectives

1.2. Laparoscopy Surgery Training
- 1.2.1. Laparoscopy Training Program
- 1.2.2. Skills Evalution Systems

1.3. Laparoscopy Surgery Ergonomics
- 1.3.1. Positioning of Surgical Equipment
- 1.3.2. Surgeon's Body Posture

1.4. Laparoscopy Surgical Equipment. Laparoscopy Tower
- 1.4.1. Insufflation Gas
- 1.4.2. Camera Source
- 1.4.3. Light Source

1.5. Laparoscopy Surgical Instruments
- 1.5.1. Trocars
- 1.5.2. Dissection, Cutting and Aspiration Instruments
- 1.5.3. Auxiliary Instruments

1.6. Energy Systems
- 1.6.1. Physical principles |
- 1.6.2. System Types. Monopolar, Bipolar, Sealent

1.7. Laparoscopic Suture
- 1.7.1. Extracorporeal Suture
- 1.7.2. Intracorporeal Suture
- 1.7.3. New Systems and Suture Materials

1.8. Access to the Abdomen and Creation of the Pneumoperitoneum
- 1.8.1. Access to the Abdomen
- 1.8.2. Creation of the Pneumoperitoneum

1.9. Laparoscopy Surgical Complications
- 1.9.1. Intraoperative complications
- 1.9.2. Immediate Postoperative Complications
- 1.9.3. Conversion

1.10. Single Incision Laparoscopy and NOTES
- 1.10.1. Basic Management and Ergonomics Principles
- 1.10.2. Surgical Techniques of Single Incision Laparoscopy
- 1.10.3. Surgical Techniques of NOTES

Module 2. Urinary, Reproductive and Digestive System Diseases

2.1. Anatomy and Physiology of the Male and Female Reproductive System
- 2.1.1. Anatomy of the Female Reproductive System
- 2.1.2. Anatomy of the Male Reproductive System
- 2.1.3. Reproduction Physiology

2.2. Pyometra and Stump Pyometra. Ovarian Tumors and Ovarian Remnant Syndrome
- 2.2.1. Pyometra
- 2.2.2. Stump Pyometra
- 2.2.3. Ovarian Remnant Syndrome
- 2.2.4. Ovarian Tumors

2.3. Prostate and Testicles. Prostatic Hyperplasia, Prostatic Cysts, Prostatitis and Prostatic Abscesses, Prostatic Neoplasms, Testicular Neoplasms
- 2.3.1. Prostatic Hyperplasia
- 2.3.2. Cysts, Abscesses, Prostatitis
- 2.3.3. Prostatic Neoplasms
- 2.3.4. Testicular Neoplasms

2.4. Urinaru Anatomy
- 2.4.1. Kidney
- 2.4.2. Urether
- 2.4.3. Bladder
- 2.4.4. Urethra

2.5. Urinary Stones
  2.5.1. Diagnosis
  2.5.2. Treatment
2.6. Urinary Incontinence, Urinary System Tumors, Ectopic Urethers
  2.6.1. Urinary Incontinence
    2.6.1.1. Diagnosis
    2.6.1.2. Treatment
  2.6.2. Urinary System Tumors
    2.6.2.1. Diagnosis
    2.6.2.2. Treatment
  2.6.3. Ectopic Urethers
    2.6.3.1. Diagnosis
    2.6.3.2. Treatment
2.7. Digestive System
  2.7.1. Stomach
  2.7.2. Intestine
  2.7.3. Liver
  2.7.4. Bladder
2.8. Dilatation-Torsion Syndrome
  2.8.1. Diagnosis
  2.8.2. Treatment
2.9. Gastric and Intestinal Foreign Bodies
  2.9.1. Diagnosis
  2.9.2. Treatment
2.10. Digestive and Liver Tumors
  2.10.1. Diagnosis
  2.10.2. Treatment

Module 3. Splenic, Extrahepatic, Endocrine and Upper Respiratory Tract Diseases

3.1. Splenic Masses
- 3.1.1. Diagnosis
- 3.1.2. Treatment

3.2. Portosystemic Shunt
- 3.2.1. Diagnosis
- 3.2.2. Treatment

3.3. Extrahepatic Biliary Tree Diseases
- 3.3.1. Diagnosis
- 3.3.2. Treatment

3.4. Endocrine Anatomy
- 3.4.1. Adrenal Anatomy
- 3.4.2. Pancreas Anatomy

3.5. Adrenal Glands
- 3.5.1. Adrenal Masses
  - 3.5.1.1. Diagnosis
  - 3.5.1.2. Treatment

3.6. Pancreas
- 3.6.1. Pancreatitis
- 3.6.2. Adrenal Masses

3.7. Airway Anatomy
- 3.7.1. Nostrils
- 3.7.2. Nasal Cavity
- 3.7.3. Larynx
- 3.7.4. Trachea
- 3.7.5. Lungs

3.8. Laryngeal Paralysis
- 3.8.1. Diagnosis
- 3.8.2. Treatment

3.9. Brachycephalic Syndrome
- 3.9.1. Diagnosis
- 3.9.2. Treatment

3.10. Nasal Tumors. Nasal Aspergillosis. Nasopharyngeal Stenosis
- 3.10.1. Diagnosis
- 3.10.2. Treatment

Module 4. Thoracic Cavity Diseases. Inguinal and Perineal Hernia Laparoscopy and Thoracoscopy Anaesthesia

4.1. Tracheal Collapse
- 4.1.1. Diagnosis
- 4.1.2. Treatment

4.2. Thoracic Anatomy
- 4.2.1. Thoracic Cavity
- 4.2.2. Pleura
- 4.2.3. Mediastinum
- 4.2.4. Heart
- 4.2.5. Esophageal

4.3. Pericardial Effusion and Masses
- 4.3.1. Diagnosis
- 4.3.2. Treatment

4.4. Pleural Effusion and Chylothorax
- 4.4.1. Etiology
- 4.4.2. Diagnosis
- 4.4.3. Chylothorax
  - 4.4.3.1. Diagnosis and Treatment

4.5. Vascular Anomalies
- 4.5.1. Persistent Right Aortic Arch
  - 4.5.1.1. Diagnosis
  - 4.5.1.2. Treatment

4.6. Pulmonary Pathologies
- 4.6.1. Pulmonary Tumors
- 4.6.2. Foreign Bodies
- 4.6.3. Pulmonary Lobe Torsion

4.7. Mediastinal Masses
  4.7.1. Diagnosis and Treatment
4.8. Inguinal and Perineal Hernia
  4.8.1. Anatomy
  4.8.2. Inguinal Hernia
  4.8.3. Perineal Hernia
4.9. Laparoscopy Surgery Anaesthesia
  4.9.1. Considerations
  4.9.2. Complications
4.10. Thoracoscopy Surgery Anaesthesia
  4.10.1. Considerations
  4.10.2. Complications

Module 5. Laparoscopic Techniques for the Reproductive, Endocrine, Splenic and Portosystemic Shunt Systems

5.1. Female Sterilization Technique. Ovariectomy
  5.1.1. Indications
  5.1.2. Trocar Positioning and Placement
  5.1.3. Technique
5.2. Female Sterilization Technique. Ovariohysterectomy
  5.2.1. Indications
  5.2.2. Trocar Positioning and Placement
  5.2.3. Technique
5.3. Laparoscopic Treatment of Ovarian Remnants
  5.3.1. Indications
  5.3.2. Trocar Positioning and Placement
  5.3.3. Technique
5.4. Male Sterilization Technique
  5.4.1. Indications
  5.4.2. Trocar Positioning and Placement
  5.4.3. Technique
5.5. Laparoscopic Intrauterine Insemination
  5.5.1. Indications
  5.5.2. Trocar Positioning and Placement
  5.5.3. Technique
5.6. Excision of Ovarian Tumors
  5.6.1. Indications
  5.6.2. Trocar Positioning and Placement
  5.6.3. Technique
5.7. Adrenalectomy
  5.7.1. Indications
  5.7.2. Trocar Positioning and Placement
  5.7.3. Technique
5.8. Pancreatic Biopsy and Pancreatectomy
  5.8.1. Indications
  5.8.2. Trocar Positioning and Placement
  5.8.3. Technique
5.9. Extrahepatic Shunt
  5.9.1. Indications
  5.9.2. Trocar Positioning and Placement
  5.9.3. Technique
5.10. Splenic Biopsy and Splenectomy
  5.10.1. Indications
  5.10.2. Positioning
  5.10.3. Technique

Module 6. Laparoscopic Techniques for the Urinary and Digestive systems

6.1. Assisted Cystoscopy by Laparoscopy
- 6.1.1. Indications
- 6.1.2. Trocar Positioning and Placement
- 6.1.3. Technique

6.2. Renal Biopsy
- 6.2.1. Indications
- 6.2.2. Trocar Positioning and Placement
- 6.2.3. Technique

6.3. Ureteronephrectomy
- 6.3.1. Indications
- 6.3.2. Trocar Positioning and Placement
- 6.3.3. Technique

6.4. Omentalization of Renal Cysts
- 6.4.1. Indications
- 6.4.2. Trocar Positioning and Placement
- 6.4.3. Technique

6.5. Ureterotomy
- 6.5.1. Indications
- 6.5.2. Trocar Positioning and Placement
- 6.5.3. Technique

6.6. Ureteral Reimplantation
- 6.6.1. Indications
- 6.6.2. Trocar Positioning and Placement
- 6.6.3. Technique

6.7. Artifical Bladder Sphincter Placement
- 6.7.1. Indications
- 6.7.2. Trocar Positioning and Placement
- 6.7.3. Technique

6.8. Liver Biopsy and Hepatectomy
- 6.8.1. Indications
- 6.8.2. Trocar Positioning and Placement
- 6.8.3. Technique

6.9. Gastropexy
- 6.9.1. Indications
- 6.9.2. Trocar Positioning and Placement
- 6.9.3. Technique

6.10. Extraction of Foreign Bodies from the Intestines
- 6.10.1. Indications
- 6.10.2. Trocar Positioning and Placement
- 6.10.3. Technique

Module 7. Laparoscopic Techniques in Extrahepatic Biliary Tree, Inguinal and Perineal Hernias. Thoracoscopic Techniques. General, Pericardium, Pleural Effusion, Vascular Rings, and Mediastinal Masses

7.1. Cholecystectomy
- 7.1.1. Indications
- 7.1.2. Trocar Positioning and Placement
- 7.1.3. Technique

7.2. Inguinal Hernias
- 7.2.1. Indications
- 7.2.2. Trocar Positioning and Placement
- 7.2.3. Technique

7.3. Perineal Hernias. Cystopexy and Colopexy
- 7.3.1. Indications
- 7.3.2. Trocar Positioning and Placement
- 7.3.3. Technique

7.4. Thorax Access
- 7.4.1. Specific Instruments
- 7.4.2. Animal Positioning
- 7.4.3. Access Technique

7.5. Thoracoscopy Surgery Complications
- 7.5.1. Intraoperative complications
- 7.5.2. Postoperative Complications

7.6. Pulmonary Biopsy and Pulmonary Lobectomy
- 7.6.1. Indications
- 7.6.2. Trocar Positioning and Placement
- 7.6.3. Technique

7.7. Pericardiectomy
- 7.7.1. Indications
- 7.7.2. Trocar Positioning and Placement
- 7.7.3. Technique

7.8. Treatment of Chylothorax
- 7.8.1. Indications
- 7.8.2. Trocar Positioning and Placement
- 7.8.3. Technique

7.9. Vascular Rings
- 7.9.1. Indications
- 7.9.2. Trocar Positioning and Placement
- 7.9.3. Technique

7.10. Mediastinal Masses
- 7.10.1. Indications
- 7.10.2. Trocar Positioning and Placement
- 7.10.3. Technique

Module 8. Digective Endoscopy. General Information, Techniques and Most Common Diseases

8.1. Introduction
- 8.1.1. History of the Digective Endoscopy
- 8.1.2. Patient Preparation
- 8.1.3. Contraindications and Complications

8.2. Equipment and Instruments
- 8.2.1. Equipment (flexible and rigid)
- 8.2.2. Accessory Instrumentation (Clamps, Baskets, Hoods, Overtubes, etc.)
- 8.2.3. Cleaning and Processing of Equipment

8.3. Esophagoscopy
- 8.3.1. Indications
- 8.3.2. Positioning
- 8.3.3. Technique

8.4. Gastroscopy
- 8.4.1. Indications
- 8.4.2. Positioning
- 8.4.3. Technique

8.5. Duodenal Ileostomy
- 8.5.1. Indications
- 8.5.2. Positioning
- 8.5.3. Technique

8.6. Colonoscopy
- 8.6.1. Indications
- 8.6.2. Positioning
- 8.6.3. Technique

8.7. Endoscopic Management of Foreign Bodies in the Digestive System
- 8.7.1. Indications
- 8.7.2. Technique
- 8.7.3. Complications and Contraindiciations

8.8. Oesophageal Stricture
- 8.8.1. Indications
- 8.8.2. Technique
- 8.8.3. Complications and Contraindications

8.9. Insertion of Feeding Tubes
- 8.9.1. Indications
- 8.9.2. Technique
- 8.9.3. Complications and Contraindiciations

8.10. Polypectomy and Mucosectomy
- 8.10.1. Indications
- 8.10.2. Technique
- 8.10.3. Complications and Contraindiciations

Module 9. Respiratory System Endoscopy General Information and Techniques in Most Common Diseases

9.1. Introduction
- 9.1.1. History of the Respiratoy Endoscopy
- 9.1.2. Patient Preparation
- 9.1.3. Contraindications and Complications

9.2. Equipment and Instruments
- 9.2.1. Equipment (flexible and rigid)
- 9.2.2. Accessory Instruments (Clamps, Baskets, etc.)
- 9.2.3. Cleaning and Processing of Equipment

9.3. Rhinoscopy
- 9.3.1. Indications
- 9.3.2. Positioning
- 9.3.3. Technique

9.4. Laryngoscopy
- 9.4.1. Indications
- 9.4.2. Positioning
- 9.4.3. Technique

9.5. Tracheoscopy
- 9.5.1. Indications
- 9.5.2. Positioning
- 9.5.3. Technique

9.6. Bronchoscopy
- 9.6.1. Indications
- 9.6.2. Positioning
- 9.6.3. Technique

9.7. Endoscopic Management of Foreign Bodies in the Respiratory System
- 9.7.1. Indications
- 9.7.2. Technique
- 9.7.3. Complications and Contraindiciations

9.8. Nasopharyngeal Stenosis
- 9.8.1. Indications
- 9.8.2. Technique
- 9.8.3. Complications and Contraindiciations

9.9. Tracheal and Broncheal Collapse
- 9.9.1. Indications
- 9.9.2. Technique
- 9.9.3. Complications and Contraindiciations

9.10. Tracheal Stenosis
- 9.10.1. Indications
- 9.10.2. Technique
- 9.10.3. Complications and Contraindiciations

Module 10. Urogenital System Endoscopy General Information and Techniques in Most Common Diseases

10.1. Introduction
- 10.1.1. History of the Urinary Endoscopy
- 10.1.2. Patient Preparation
- 10.1.3. Contraindications and Complications

10.2. Equipment and Instruments
- 10.2.1. Equipment (flexible and rigid)
- 10.2.2. Accessory Instruments (Laser, Pincers, Baskets, Fibers, Hydrophilic Guides, Stents, etc.)
- 10.2.3. Cleaning and Processing of Equipment

10.3. Urethrocystoscopy
- 10.3.1. Indications
- 10.3.2. Positioning
- 10.3.3. Technique

10.4. PCCL
- 10.4.1. Indications
- 10.4.2. Positioning
- 10.4.3. Technique

10.5. Percutaneous Nephroscopy
- 10.5.1. Indications
- 10.5.2. Positioning
- 10.5.3. Technique

10.6. Vaginoscopy
- 10.6.1. Indications
- 10.6.2. Positioning
- 10.6.3. Technique

10.7. UGELAB- Ultrasound-Guided Endoscopic Laser Ablation
- 10.7.1. Indications
- 10.7.2. Technique
- 10.7.3. Complications and Contraindiciations

10.8. Transcervical Insemination
- 10.8.1. Indications
- 10.8.2. Technique
- 10.8.3. Complications and Contraindiciations

10.9. Ureteral Stents
- 10.9.1. Indications
- 109.2. Technique
- 10.9.3. Complications and Contraindiciations

10.10. Intracorporeal Lithotripsy
- 10.10.1. Indications
- 10.10.2. Technique
- 10.10.3. Complications and Contraindiciations

If mastering the implantation of feeding tubes in small animals is among your priorities, this program is perfect for you. Are you going to let this great opportunity pass you by?

07

Clinical Internship

Once the online academic section has been passed, the program includes a 120-hour Internship Program period in a reference Veterinary Center In addition, the graduates will have at their disposal the support of a tutor who will accompany them throughout the process, both in the preparation and in the development of the clinical practices, in order to ensure that they can make the most of each of the resources included in this program.

Don't miss this great opportunity and get up-to-date with the best in the industry by also taking a practical internship in a reference center"

The Internship Program of this program in Minimally Invasive Veterinary Surgery in Small Animals consists of a 3-week stay in a referral clinical institution. The specialist will be up-to-date by a professional of the sector who will be in charge of tutoring the sessions at all times.

This stay will allow the graduate to learn from the attention of real cases alongside a professional team of reference in the veterinary area, applying the most innovative and state-of-the-art procedures.

In this training proposal, completely practical in nature, the activities are aimed at developing and perfecting the skills necessary for the provision of veterinary care in areas and conditions that require a high-level of qualification, and are oriented towards specific training for the exercise of the activity, in a safe environment and high professional performance.

The in-person stay in the clinic will allow the professionals to complete a minimum number of clinical practice activities that will allow them to put specific veterinary procedures into practice. The program will be carried out with the active participation of the student performing the activities and procedures of each area of competence (learning to learn and learning to do), with the accompaniment and guidance of the assigned tutor.

The practical part will be carried out with the active participation of the student performing the activities and procedures of each area of competence (learning to learn and learning to do), with the accompaniment and guidance of teachers and other fellow trainees that facilitate teamwork and multidisciplinary integration as transversal competencies for the the veterinary practice (learning to be and learning to relate).

The procedures described below will form the basis of the practical part of the internship, and their implementation is subject to both the suitability of the patients and the availability of the center and its workload, with the proposed activities being as follows:

You will have access to an unlimited catalog of activities whose common point is the following: in all of them you will participate in a leading role in the management of the veterinary patient"

Module	Practical Activity
Specialized care of different diseases in Veterinary Medicine	Manage the anatomy and physiology of the male and female reproductive system in different species
	Delve into cases related to ovarian tumors and ovarian rest syndromes
	Update the graduate in the analysis of the prostate and testicles for the diagnosis of pathologies such as neoplasia or abscesses
	Work in the diagnosis of digestive and hepatic tumors
	Analysis of splenic masses
	Assessment of extrahepatic biliary tree related diseases
Introduction and update in the practice of laparoscopy	Delve into the details of ergonomics in laparoscopic surgery: positioning of equipment in the operating room and the surgeon's body posture
	Analyze the equipment necessary for this purpose, as well as the use of the laparoscopy tower
	Assessment of instruments needed in surgery
	Analyze the required energy system as well as current alternatives
Use of laparoscopic techniques in different areas	Apply laparoscopic treatment to the ovaries
	Practice sterilization in males
	Intervene in the excision of ovarian tumors
	Assess cases of patients with extrahepatic diagnosis
	Perform splenic biopsy and splenectomy
Use of endoscopy as a referral technique	Prepare the patient before the endoscopic procedure
	Assessment of equipment and instrumentation required
	Handle different types of endoscopes for the analysis of gastroscopy, duodenum, esophageal stenosis, etc.
	Examine the different areas of the animal's body according to its anatomical physiology
	Conduct an assessment of UGELAB- Ultasound-Guided Endoscopic Laser Ablation

Civil Liability Insurance

This institution's main concern is to guarantee the safety of the trainees and other collaborating agents involved in the internship process at the company. Among the measures dedicated to achieve this is the response to any incident that may occur during the entire teaching-learning process.

To this end, this entity commits to purchasing a civil liability insurance policy to cover any eventuality that may arise during the course of the internship at the center.

This liability policy for interns will have broad coverage and will be taken out prior to the start of the practical training period. That way professionals will not have to worry in case of having to face an unexpected situation and will be covered until the end of the internship program at the center.

General Conditions for Practical Training

The general terms and conditions of the internship agreement for the program are as follows:

1. TUTOR: During the Hybrid Professional Master's Degree, students will be assigned with two tutors who will accompany them throughout the process, answering any doubts and questions that may arise. On the one hand, there will be a professional tutor belonging to the internship center who will have the purpose of guiding and supporting the student at all times. On the other hand, they will also be assigned with an academic tutor whose mission will be to coordinate and help the students during the whole process, solving doubts and facilitating everything they may need. In this way, the student will be accompanied and will be able to discuss any doubts that may arise, both clinical and academic.

2. DURATION: The internship program will have a duration of three continuous weeks, in 8-hour days, 5 days a week. The days of attendance and the schedule will be the responsibility of the center and the professional will be informed well in advance so that they can make the appropriate arrangements.

3. ABSENCE: If the students does not show up on the start date of the Hybrid Professional Master's Degree, they will lose the right to it, without the possibility of reimbursement or change of dates. Absence for more than two days from the internship, without justification or a medical reason, will result in the professional's withdrawal from the internship, therefore, automatic termination of the internship. Any problems that may arise during the course of the internship must be urgently reported to the academic tutor.

4. CERTIFICATION: Professionals who pass the Hybrid Professional Master's Degree will receive a certificate accrediting their stay at the center.

5. EMPLOYMENT RELATIONSHIP: The Hybrid Professional Master's Degree shall not constitute an employment relationship of any kind.

6. PRIOR EDUCATION: Some centers may require a certificate of prior education for the Hybrid Professional Master's Degree. In these cases, it will be necessary to submit it to the TECH internship department so that the assignment of the chosen center can be confirmed.

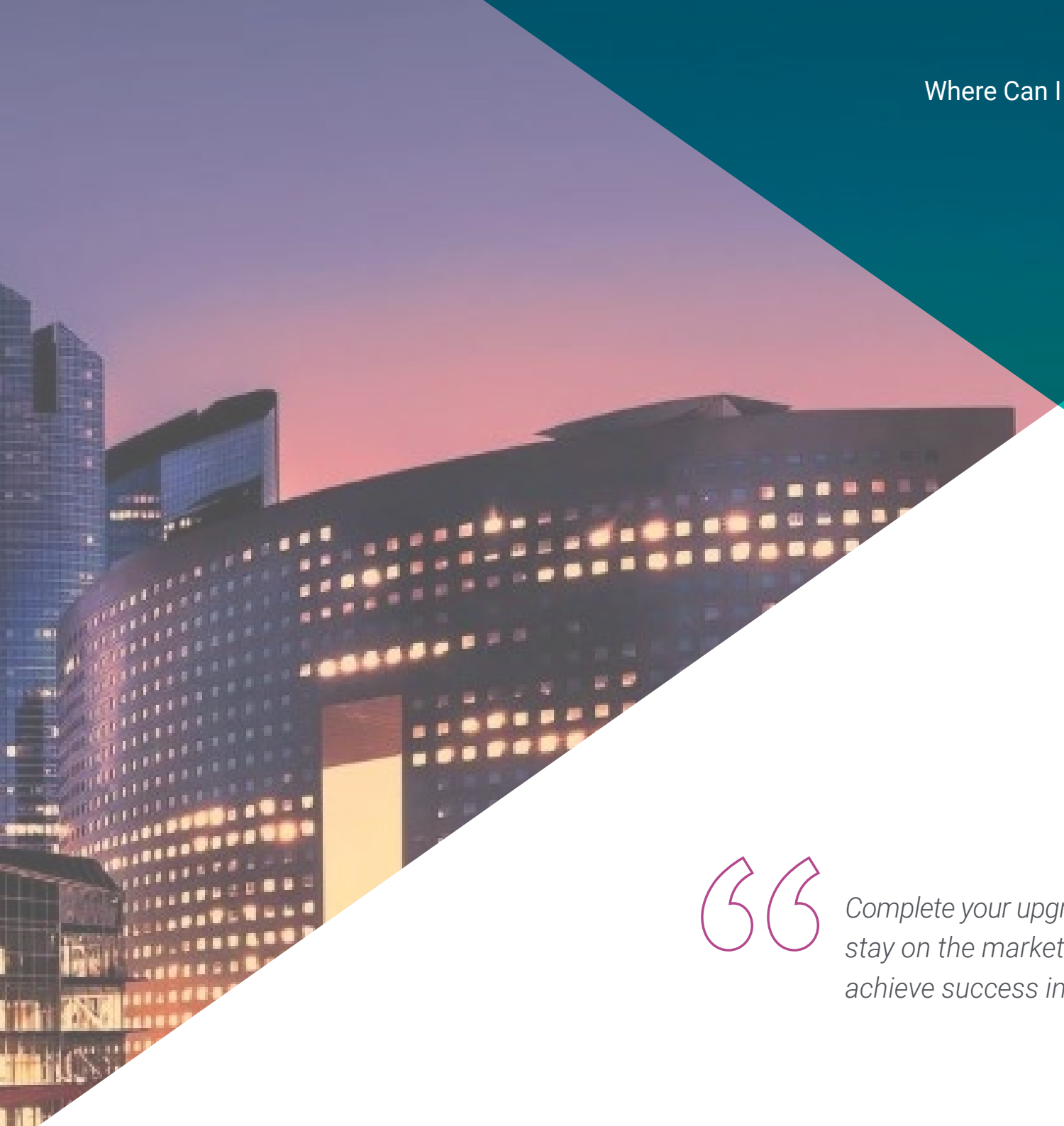
7. DOES NOT INCLUDE: The Hybrid Professional Master's Degree will not include any element not described in the present conditions. Therefore, it does not include accommodation, transportation to the city where the internship takes place, visas or any other items not listed

However, students may consult with their academic tutor for any questions or recommendations in this regard. The academic tutor will provide the student with all the necessary information to facilitate the procedures in any case.

08

Where Can I Do the Clinical Internship?

This Hybrid Professional Master's Degree includes in its itinerary a practical stay in a prestigious veterinary center where the students will put into practice everything they have learned in the field of minimally invasive surgical procedures. In this sense, and to bring this program closer to more professionals, TECH offers the student the opportunity to take it in different veterinary centers around the country. In this way, this institution strengthens its commitment to quality and affordable education for all.



Complete your upgrade with the best practical stay on the market. Only in this way will you achieve success in your daily practice"

The student will be able to complete the practical part of this Hybrid Professional Master's Degree at the following centers:

Hospital Veterinario Retiro

Country: Spain
City: Madrid

Address: Av. de Menéndez Pelayo, 9

Veterinary Hospital specialized in Nutrition and with 24 hour emergency service

Related internship programs:
- Veterinary Traumatology and Orthopedic Surgery
- Veterinary Emergencies in Small Animals

Centro Veterinario San Antón

Country: Spain
City: Madrid

Address: Avenida de la Libertad, 93. Local 14-16, 28770 Colmenar Viejo

Veterinary Center offering personalized attention to different animal species

Related internship programs:
- Veterinary Anesthesiology
- Veterinary Cardiology in Small Animals

Hospital Artemisa Cañaveral

Country: Spain
City: Madrid

Address: Francisco Grande Covian, local 1, 28052 Madrid

Veterinary hospital specialized in general care and 24-hour emergency assistance

Related internship programs:
-Veterinary Anesthesiology
- Veterinary Surgery in Small Animals

Hospital Veterinario MiVet Tomás Bustamante

Country: Spain
City: Cantabria

Address: C. Lasaga Larreta, 4, 39300 Torrelavega, Cantabria

Veterinary Clinic for general care and emergencies 24 hours a day

Related internship programs:
- Minimally Invasive Veterinary Surgery in Small Animals

Centro Veterinario Animal-Vetx El Saladillo

Country: Spain
City: Huelva

Address: Cam. del Saladillo, 3, 21007 Huelva

AnimalVetx El Saladillo Veterinary Center in Huelva is a complete and innovative veterinary center since 2014

Related internship programs:
- Veterinary Surgery in Small Animals
- Small Animal Ultrasonography

Veterinary Medicine

Centro Veterinario Puebla

Country: Mexico
City: Puebla

Address: Calzada zavaleta 115 Local 1 Santa Cruz Buenavista C.P 72154

General veterinary center with 24-hour emergency care

Related internship programs:
- Veterinary Anesthesiology
- Veterinary Cardiology in Small Animals

Veterinary Medicine

Hospital Veterinario Paraíso Animal

Country: Mexico
City: Puebla

Address: Antiguo Camino Real a Cholula 99-B Villas de Zabaleta C.P 72176 Heroica Puebla de Zaragoza. Puebla México

High level Veterinary Hospital with a wide range of services in the different specialties

Related internship programs:
- Veterinary Surgery in Small Animals
- Veterinary Anesthesiology

Veterinary Medicine

Pets, life & Care

Country: Mexico
City: Nuevo León

Address: Av. Cabezada 10701-L12 Barrio acero C.P 64102

Comprehensive Care Veterinary Hospital

Related internship programs:
- Small Animal Ultrasonography
- Veterinary Emergencies in Small Animals

Veterinary Medicine

Clínica Veterinaria Luifran

Country: Mexico
City: Mexico City

Address: Nte. 7-A 4634, Defensores de la República, Gustavo A. Madero, 28001 Ciudad de México, CDMX

Veterinary assistance center specialized in dogs and cats

Related internship programs:
- Veterinary Anesthesiology
- Infectious Diseases in Small Animals

Veterinary Medicine

Veterinaria Palo Verde

Country: Mexico
City: Mexico City

Address: Cerro del Otate 20, Romero de Terreros, Coyoacán, 04310 Ciudad de México, CDMX

Veterinary clinic with more than 30 years of experience in pet care

Related internship programs:
- Small Animal Internal Medicine
- Animal Welfare

09

Methodology

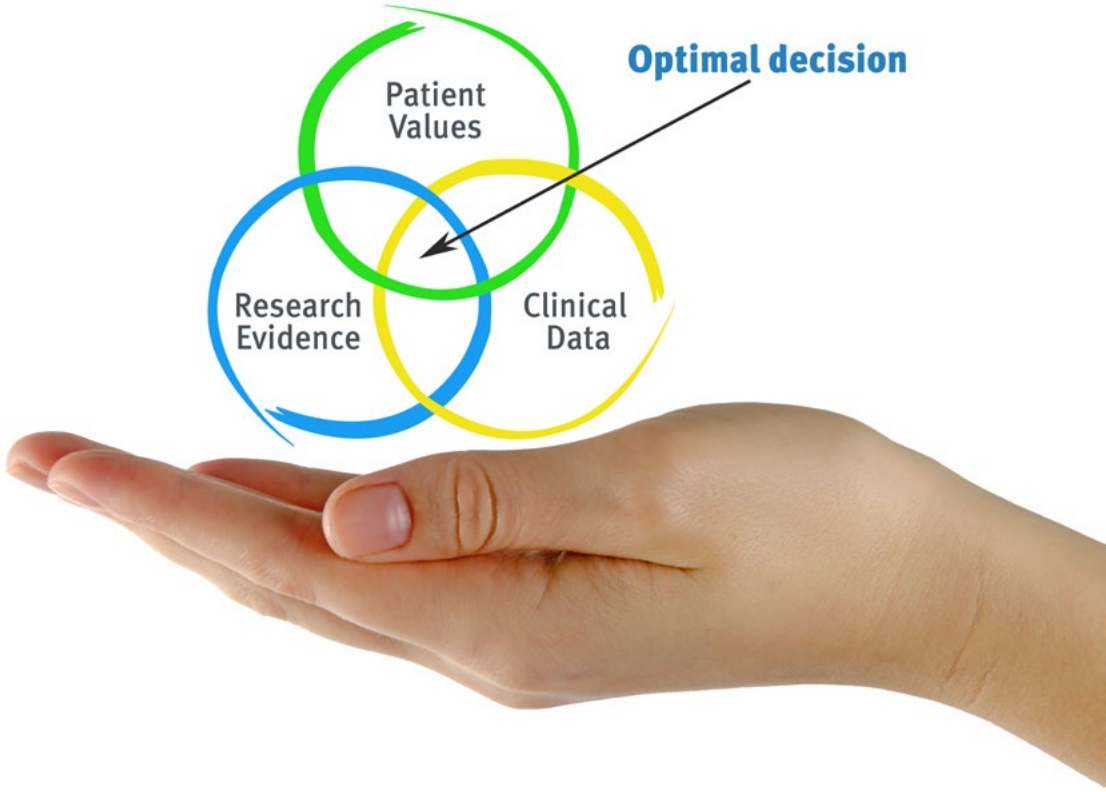
This academic program offers students a different way of learning. Our methodology uses a cyclical learning approach: **Relearning.**
This teaching system is used, for example, in the most prestigious medical schools in the world, and major publications such as the **New England Journal of Medicine** 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:

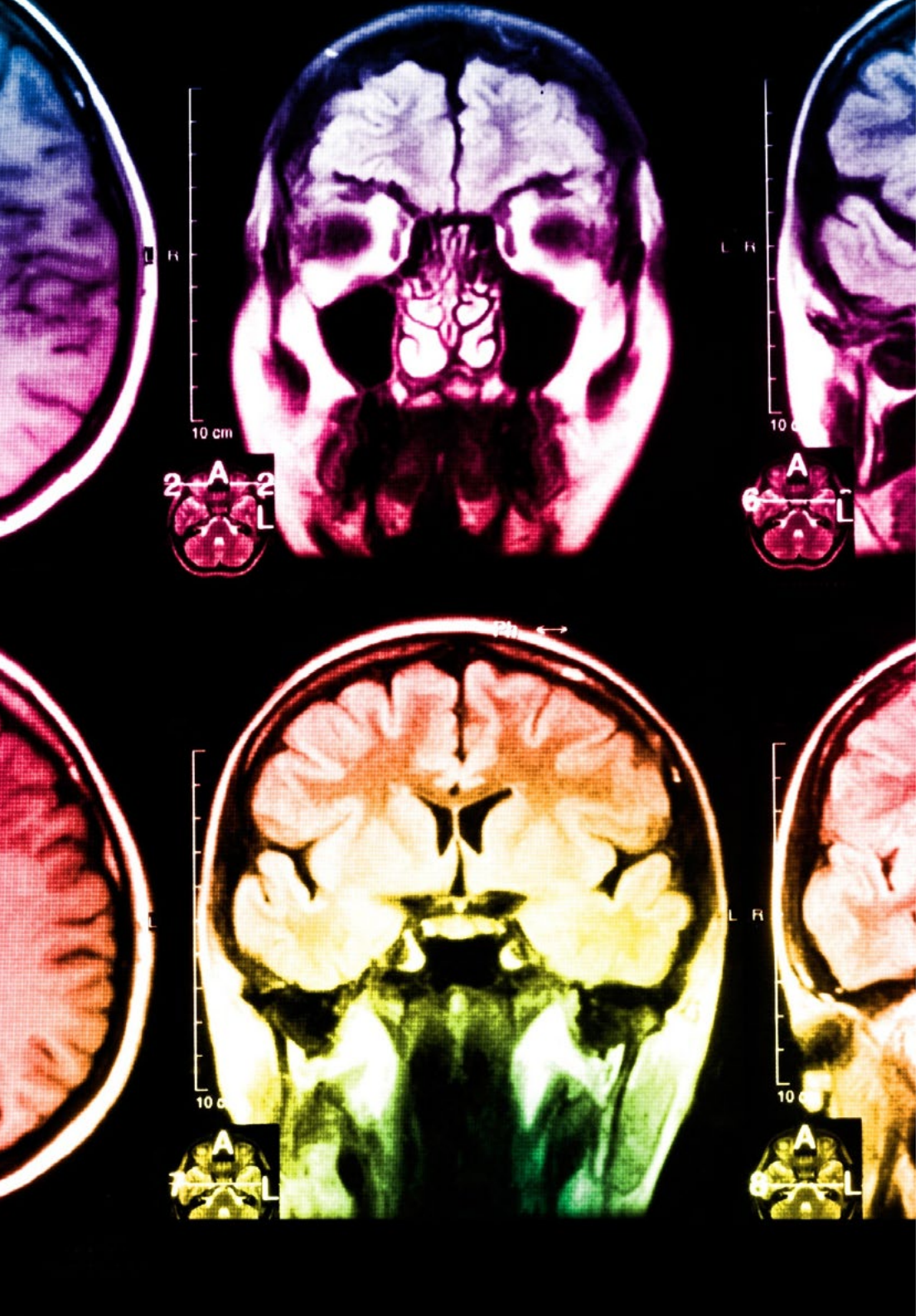
1. Veterinarians who follow this method not only manage to assimilate concepts, but also develop their mental capacity through exercises to evaluate real situations and knowledge application
2. Learning is solidly translated into practical skills that allow the student to better integrate into the real 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.

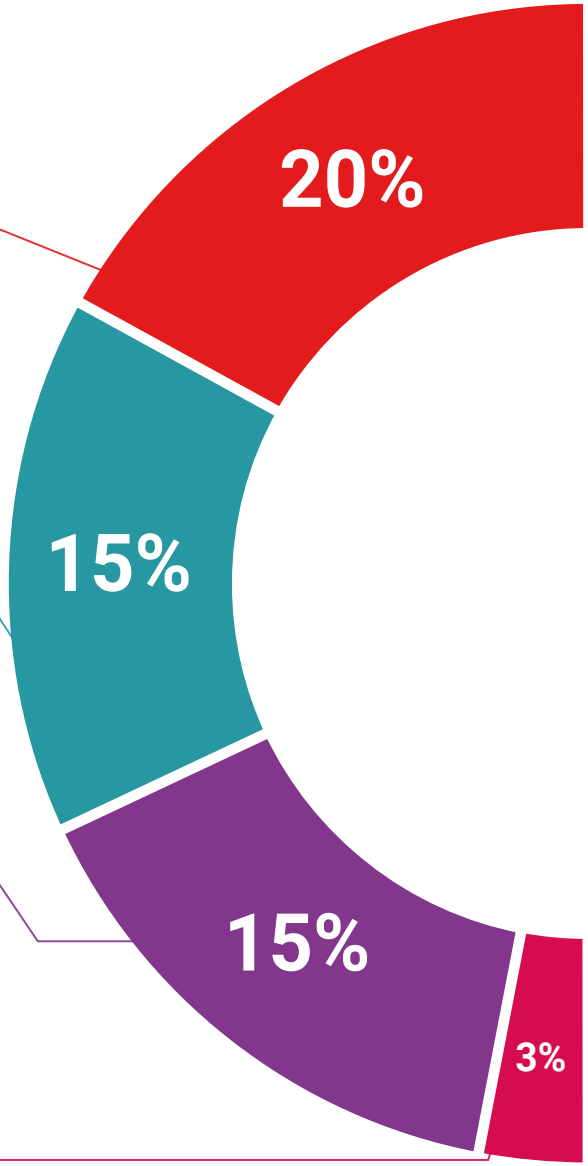
Interactive Summaries

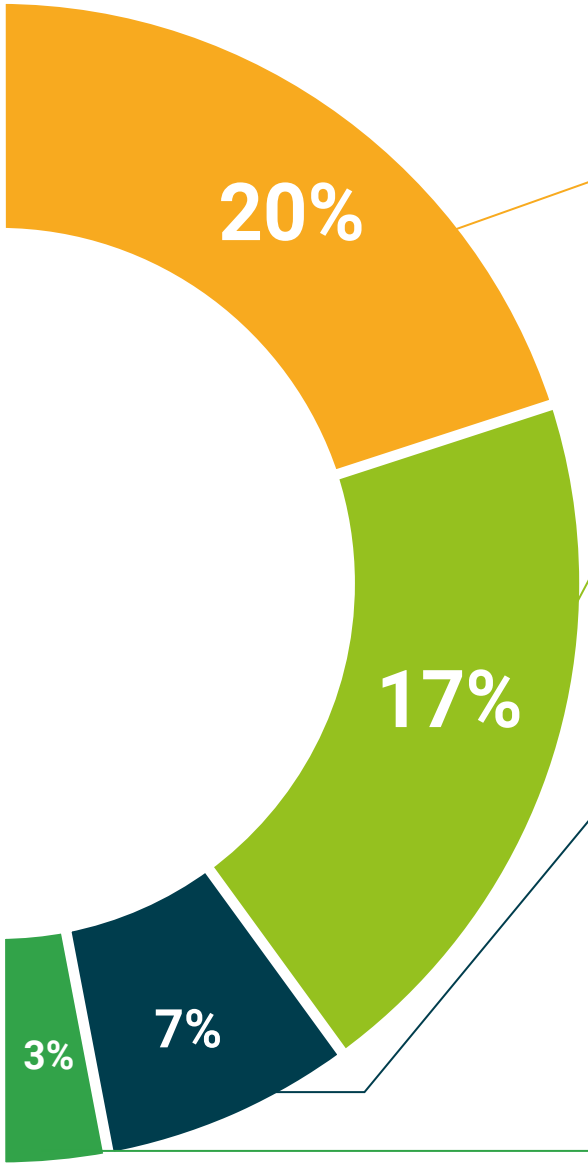
The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

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.

10

Certificate

The Hybrid Professional Master's Degree in Minimally Invasive Veterinary Surgery in Small Animals guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Hybrid Professional Master's Degree issued by TECH Technological University.

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

This **Hybrid Professional Master's Degree in Minimally Invasive Veterinary Surgery in Small Animals** contains the most complete and up-to-date program on the professional and educational field.

After the student has passed the assessments, they will receive their corresponding Hybrid Professional Master's Degree diploma issued by TECH Technological University via tracked delivery*.

In addition to the diploma, students will be able to obtain an academic transcript, as well as a certificate outlining the contents of the program. In order to do so, students should contact their academic advisor, who will provide them with all the necessary information.

Title: **Hybrid Professional Master's Degree in Minimally Invasive Veterinary Surgery lin Small Animals**

Course Modality: **Hybrid (Online + Clinical Internship)**

Duration: **12 months**

Certificate: **TECH Technological University**

Teaching Hours: **1,620 h.**

tech technological university

Awards the following

DIPLOMA

to

Mr./Ms. _____, with identification number _____.

For having successfully passed and accredited the following program

HYBRID PROFESSIONAL MASTER'S DEGREE

in

Minimally Invasive Veterinary Surgery in Small Animals

This is a qualification awarded by this University, with a duration of 1,620 hours, with a start date of dd/mm/yyyy and an end date of dd/mm/yyyy.

TECH is a Private Institution of Higher Education recognized by the Ministry of Public Education as of June 28, 2018.

June 17, 2020

Tere Guevara Navarro
Dean

This qualification must always be accompanied by the university degree issued by the competent authority to practice professionally in each country. Unique TECH Code: AFWORD23S techtitute.com/certificates

Hybrid Professional Master's Degree in Minimally Invasive Veterinary Surgery in Small Animals

Subject type	Hours
Compulsory (CO)	1,500
Optional (OP)	0
External Work Placement (WP)	120
Master's Degree Thesis (MDT)	0
	Total 1,620

General Structure of the Syllabus

Year	Subject	Hours	Type
1	Basic Principles in a Laparoscopy	150	CO
1	Urinary, Reproductive and Digestive System Diseases	150	CO
1	Splenic, Extrahepatic, Endocrine and Upper Respiratory Tract Diseases	150	CO
1	Thoracic Cavity Diseases. Inguinal and Perineal Hernia. Laparoscopy and Thoracoscopy Anaesthesia	150	CO
1	Laparoscopic Techniques for the Reproductive, Endocrine, Splenic and Portosystemic Shunt Systems	150	CO
1	Laparoscopic Techniques for the Urinary and Digestive systems	150	CO
1	Laparoscopic Techniques in Extrahepatic Biliary Tree, Inguinal and Perineal Hernias. Thoracoscopic Techniques. General, Pericardium, Pleural Effusion, Vascular Rings, and Mediastinal Masses	150	CO
1	Digective Endoscopy. General Information, Techniques and Most Common Diseases	150	CO
1	Respiratory System Endoscopy General Information, Techniques and Most Common Diseases	150	CO
1	Urogenital System Endoscopy General Information, Techniques and Most Common Diseases	150	CO

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*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.

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Hybrid Professional Master's Degree

Minimally Invasive Veterinary Surgery in Small Animals

Course Modality: **Hybrid (Online + Clinical Internship)**
Duration: **12 months**
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Hybrid Professional Master's Degree

Minimally Invasive Veterinary Surgery in Small Animals

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