Hybrid Professional Master's Degree

Veterinary Surgery in Small Animals

tech technological university

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Hybrid Professional Master's Degree

Veterinary Surgery in Small Animals

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-veterinary-surgery-small-animals**

Index

01

Introduction

This academic program aims to teach veterinarians the latest developments in the sector so that they can incorporate the most advanced surgical techniques in their daily practice. In this way, and through a high level theoretical and practical program, the student will not only have the theoretical knowledge, but will also know how to put what they have learned into action because they will enjoy a practical stay in a prestigious Veterinary Center. Throughout these months of intensive learning, professionals will know how to perform different surgical techniques, minimize the complications inherent to this type of surgery and post operative complications, with safety and solvency.

If you want to learn how to use the latest small animal surgical techniques in your daily practice, then this academic program is for you"

Veterinarians are currently facing new challenges in the treatment of their patients and, therefore, the future of this scientific branch is specialization. Advances in this field bring with them new tools with which to diagnose and make treatments more precise, so it is necessary for professionals to acquire a sharper preparation about the strategies and protocols available to them for small animal intervention through surgery. This Hybrid Master's Degree offers theoretical content and first-level practical skills related to this professional field. Through it, the student will master the most contemporary specificities about the specific material and instruments for each anatomical region, the most precise anesthetics and complementary medications to become a true expert in pet surgery.

This program consists of two main phases, the first of which will examine all these subjects from a theoretical point of view. In addition, once this part has been completed, the veterinarian will have the luxury of a three-week practical stay in a reference veterinary center where they will be able to put into action everything they have learned. It is, therefore, a qualification designed especially for those professionals who want to learn about this area of knowledge through an eminently practical plan. Therefore, it is a highly efficient educational project committed to updating knowledge in order to enhance a high quality professional practice.

In addition, 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 procedures of the latest generation. In this way, the practical activities that will take place during the plan will be aimed at developing and perfecting the skills required for this sector. With this study, the veterinarian will acquire updated knowledge, useful, with scientific rigor and ideal for immediate application in their daily clinical practice. A high-level academic occasion that aims to bring together minimally invasive surgical and therapeutic techniques that can be performed in the clinical practice of small animals.

This **Hybrid Professional Master's Degree in Veterinary Surgery in Small Animals** contains the most complete and up-to-date program on the market. Its most notable features are:

- Development of more than 100 clinical cases presented by nursing professionals with expertise in intensive care 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 surgical approach plans for small animals
- Presentation of practical workshops on diagnosis, and therapeutic techniques for the veterinary patient
- An algorithm-based interactive learning system for decision-making in the clinical situations presented throughout the course
- Practical clinical guides on approaching different pathologies
- With a special emphasis on evidence-based medicine and the most effective methodologies in Surgery Small Animal Veterinary Surgery
- 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 available from any fixed or portable device with an Internet connection
- Furthermore, you will be able to carry out a clinical internship in one of the best veterinary centers in the world|In this proposal for a Hybrid Professional Master's

Take an intensive 3-week internship at a prestigious institution and acquire all the knowledge to grow personally and professionally"

The entire program is designed based on the highest scientific rigor and the latest developments in the profession.

Update your knowledge through the Hybrid Professional Master's Degree in Small Animals Nursing, in a practical way that is adapted to your needs.

Degree, of a professionalizing nature and hybrid learning modality, the program is aimed at updating veterinary professionals who perform their functions in surgical units, and who require a high level of qualification. The contents are based on the latest scientific evidence, and oriented in a didactic way to integrate theoretical knowledge in veterinary practice, and the theoretical-practical elements will facilitate the updating of knowledge and allow decision making in the management of small animalsThanks to its multimedia content developed with the latest educational technology, they will allow the veterinary professional a situated and contextual learning, that is to say, a simulated environment that will provide an immersive learning programmed to train in real situations. The design of this program focuses on Problem Based Learning, through which the student will have to try to solve the different professional practice situations that will arise throughout the program. This will be done with the help of an innovative interactive video system created by renowned veterinary experts

02

Why Study this Hybrid Professional Master's Degree?

Veterinary surgeries save the lives of thousands of animals every year. Particularly for small animals, they solve all kinds of complications. For these reasons, experts capable of mastering the surgical techniques and technologies of this sector are in great demand in specialized institutions. In addition, the gradual and constant evolution of all these equipment and strategies requires veterinarians to remain up to date. Aware of these needs, TECH has composed this program, capable of leading all its students to professional excellence thanks to its 100% practical didactic application.

TECH offers you the latest treatments to surgically prevent pets. Don't miss this opportunity and enroll"

1. Updating from the Latest Technology Available

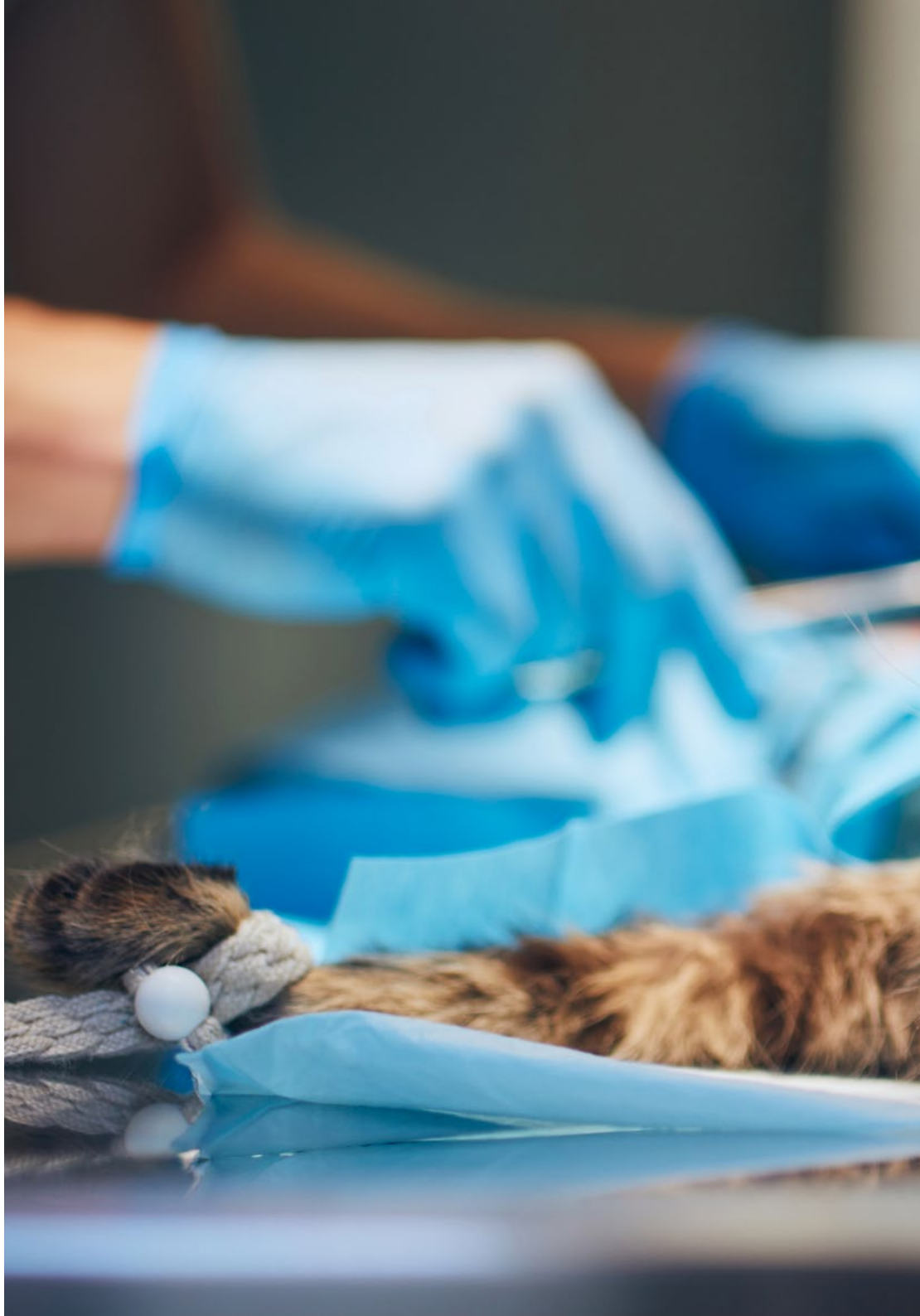
The most avant-garde surgical techniques for the Veterinary field are collected in this excellent Practical Training of this Hybrid Professional Master's program. Therefore, after 1,500 hours of theoretical learning, the student will enjoy 3 weeks of practical training in the use of the most complex technologies available.

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

During this study program, students will have direct contact with leading experts in the field of Veterinary Surgery. They will also have a designated tutor, who will provide them with up-to-date knowledge and complex skills.

3. Entering into first-class veterinary environments.

Through an analysis of the academic landscape, TECH has chosen prestigious centers to be part of the practical stay of this pedagogical program. These veterinary institutions apply novel techniques and technologies for animal intervention. At the same time, they have the most highly trained specialists in this field of knowledge.



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

TECH wants its students to learn quickly and flexibly the most sought-after skills in this professional field. To this end, it has configured a learning model that perfectly integrates the hours of theoretical workload with a first-class practical stay. From the skills developed in both stages, the student will acquire an indispensable qualification for future employment.

5. Expanding the Boundaries of Knowledge

TECH offers the possibility of carrying out the professional internship of this Hybrid Professional Master's Degree Program in centers of international importance. In this way, the specialist will be able to expand his frontiers and keep up to date with the best professionals, who practice Pharmacodynamics. in first class hospitals and in different continents.

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

03

Objectives

This program was created with the objective of providing veterinarians with the competencies, tools and knowledge that will enable them to practice in the surgical area with a higher success rate. In this way, the professional will be able to contribute positively to his or her area of study, from a new perspective and with a clear orientation that will bring quality of life to their patients.

Your goals and ours at TECH become one and the same in this Hybrid Professional Master's Degree"

General Objective

- The main objective of the Hybrid Professional Master's Degree in Small Animal Veterinary Surgery is 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, the veterinarian will be able to position himself as a reference in this area of knowledge, being able to apply the latest surgical techniques correctly and efficiently to his patients

Upgrade your knowledge and start to see how you improve day by day in your daily practice"

Specific Objectives

Module 1. Basic Principles of Soft Tissue Surgery. Medical-surgical Techniques. Exploratory Laparotomy.

- Refine the rules of conduct for a surgeon
- Explain the correct use of tissue synthesis materials
- Develop knowledge of the surgical instruments available and promote their correct use
- Refine the surgical technique to minimize tissue damage
- Propose new hemostasis techniques
- Identify and successfully treat surgical site infections

Module 2. Skin. Treatment of Wounds and Reconstructive Surgery.

- Understand the types of wounds there are, not only from an etiopathogenesis point of view, but also from a microbiological point of view
- Develop an understanding of the criteria involved in making decisions about the medical and surgical treatment of wounds
- Specify the local and systemic factors affecting healing
- Understand what laser therapy consists of, which parameters are important, their indications and their contraindications
- Gain an in-depth understanding of how to manage of the subdermal plexus with the use of local options they provide
- Propose techniques specially adapted to each different zone on the body, from the head to interdigital areas
- Specify how axial plexus flaps are designed and implemented in each area
- Explain grafting and the importance of correct patient selection and postoperative management

Module 3. Gastrointestinal Surgery.

- Examine the anatomy of the affected area and provide the student with the specialized knowledge to safely and appropriately perform the surgical procedures on the gastrointestinal tract
- Compile all the latest material and develop it in a clear way so that the student can get the most out of it
- Develop understanding of the most common surgical techniques in the gastrointestinal tract
- Propose diagnostic and therapeutic plans for the different diseases that affect the gastrointestinal tract
- Examine the unique tools used for the diagnosis of gastrointestinal tract diseases
- Explain in detail the different diseases that can occur in each zone and how to treat them
- Develop specialized knowledge so that the student can perfect their clinical practice in the diagnosis and management of gastrointestinal tract diseases

Module 4. Genitourinary Surgery. Mammary Surgery.

- Examine the most important anatomical considerations in the surgical treatment of genitourinary disease
- Consolidate knowledge of how certain surgical principles are applied in the treatment of urinary tracts
- Develop knowledge of the problems that occur when urine cannot be excreted from the patient's body
- Establish clear recommendations for the imaging techniques to choose to diagnose each disease
- Develop a detailed understanding of relevant surgical techniques
- Identify the most common complications in each surgical technique and how to prevent or solve them
- Propose protocols for making decisions in breast oncology
- Demonstrate the importance of peri-operative care of patients with breast tumors

Module 5. Surgical Oncology. Basic Principles. Cutaneous and Subcutaneous Tumors.

- Define the differences between curative, cytoreductive or palliative interventions
- Analyze each patient to understand the optimal treatment for them
- Develop an action protocol for cutaneous tumors, including correct prior diagnosis and staging
- Establish correct surgical management techniques and margins to deal with soft tissue sarcomas
- Establish correct surgical management techniques and margins to deal with mastocytomas
- Establish correct surgical management techniques and margins to deal with cutaneous and subcutaneous tumors relevant to pet animal medicine

Module 6. Liver and Biliary System Surgery Spleen Surgery. Endocrine System Surgery.

- Analyze the liver anatomy and the principal surgical techniques and complications in the most common liver diseases affecting small animals
- Analyze the spleen anatomy, main surgical techniques and complications in the main splenic diseases affecting small animals. Specifically, an action protocol for dealing with a splenic mass will be developed
- Establish diagnostic and therapeutic plans for the different diseases that affect the liver and the spleen, based on evidence and with the aim of tailoring it to each individual patient and their owner

- Develop the most appropriate techniques and therapeutic plans to treat the most common diseases which affect the thyroid glands, such as thyroid tumors and hyperthyroidism in cats
- 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
- Establish diagnostic and therapeutic plans for the different endocrine diseases, based on evidence and with the aim of tailoring it to each individual patient and their owner

Module 7. Head and Neck Surgery

- Revise the anatomy of the oral cavity, nasal cavity, ear, trachea and larynx, so that the student has the knowledge to adequately and safely perform surgical procedures
- Develop understanding of the main conditions of the oral cavity such as oral and labial tumors in the context of diagnosis, therapeutic approach, surgical techniques, complications and prognosis
- Develop understanding of the main ear problems such as otohematomas, tumors of the external auditory pavilion and external auditory canal, chronic recurrent otitis and nasopharyngeal polyps. This will be in the context of diagnosis, the therapeutic approach, surgical techniques, complications and prognosis
- Develop the main pharyngeal conditions such as laryngeal paralysis in the context of diagnosis, therapeutic approach, surgical techniques, complications and prognosis
- Develop understanding of the main conditions of the salivary glands such as sialoceles in the context of diagnosis, therapeutic approach, surgical techniques, complications and prognosis
- Compile all scientific literature to develop a diagnostic and therapeutic protocol, with the latest techniques for the treatment of tracheal collapse
- Compile all the scientific literature to elaborate a diagnostic and therapeutic protocol, with the latest techniques for the treatment of brachycephalic syndrome
- Define other less frequent diseases which affect the head and neck of small animals, such as nasopharyngeal stenosis, tracheal and laryngeal tumors and cricopharyngeal achalasia
- Establish different diagnostic and therapeutic techniques for the different head and neck diseases
- Generate up-to-date material, based on evidence from different surgical techniques of the oral cavity, nasal cavity, ears, trachea and larynx

Module 8. Thoracic Cavity Surgery.

- Provide knowledge of the anatomy to establish the basis for an appropriate surgical technique for procedures in the thoracic cavity
- Present the specific material needed to perform surgical interventions in this area
- Develop more advanced techniques, less common in daily clinical practice due to their complexity, to make them understandable and practicable for the student
- Compile an up-to-date of the best surgical techniques on thoracic structures
- Propose diagnostic and therapeutic plans for the different diseases that affect the thoracic cavity
- To compile the different tools for the diagnosis of pathologies in the thoracic cavity
- To enable the student to identify and resolve the most frequent complications that may occur during surgery of the thoracic cavity

Module 9. Amputations: Thoracic Limb, Pelvic Limb, Caudectomy, Phalanges. Umbilical, Inguinal, Scrotal, Traumatic, Perineal, Diagrammatic and Peritoneopericardial Diaphragmatic Hernias.

- Present the most common indications for the amputation of the pelvic limb, thoracic, caudectomy and phalanges
- Compile the different surgical techniques for performing amputations in small animals as a resolution technique for tumors of the pelvic region, including hemipelvectomy
- Revise the preoperative indications, patient selection, post-operative care and complications that could arise when performing amputations in small animals
- Present the most appropriate techniques and therapeutic plans for resolving the different umbilical, inguinal, scrotal and traumatic hernias

- Revise the different techniques for the resolution of a perineal hernia as well as establishing an appropriate therapeutic protocol for treating this condition
- Develop knowledge of a diaphragmatic hernia in the context of the indication for surgery, diagnosis and most effective techniques for its resolution
- Develop diaphragmatic peritoneal pericardial hernia in the context of the indication for surgery, diagnosis and most effective techniques for its resolution

Module 10. Minimally Invasive Surgery. Laparoscopy. Thoracoscopy. Interventional Radiology.

- Identify the main equipment and instruments necessary to perform laparoscopies and thoracoscopies
- Develop the main techniques performed in small animal laparoscopic surgery such as ovariectomy, cryptorchidectomy, preventive gastropexy and liver biopsy
- Define other, less-common techniques of laparoscopic approach such as assisted cystoscopy, digestive examination, cholecystectomy and biopsy of different organs of the abdominal cavity
- Develop the main techniques performed in thoracoscopic surgery in small animals such as pericardiectomy and establish the most appropriate protocol in each case
- Define other less common techniques of thoracoscopic approach in small animals such as lung biopsy, pulmonary lobectomy, chylothorax resolution technique and vascular rings
- Identify the main equipment and instruments needed to perform interventional radiology
- Define the main techniques with which interventional radiology is performed

04

Skills

After passing the evaluations of the Hybrid Professional Master's Degree in Small Animal Veterinary Surgery, the professional will have acquired the necessary skills for a quality and updated praxis based on the most innovative teaching methodology. In this way, and after having acquired the most important and innovative theoretical and practical knowledge in the field, the veterinarian will be able to position himself as a reference in the sector, giving his career the definitive push towards excellence.

The skills you will acquire after completing this Postgraduate Certificate will placement you as an Referrals in the sector”

General Skills

- Correctly perform surgical procedures
- Deal with surgical and postoperative complications
- Perform appropriate diagnoses according to the type of disease that the animal has
- Use the correct specific surgical material in each case
- Treat the various wounds they could find when examining an animal
- Use the most appropriate instruments for each intervention

Specific Skills

- Understand the most appropriate surgical material for tissue damage and perform this type of surgery
- Treat surgical infections
- Understand the healing process of wounds and the best way to proceed with the treatment
- Perform laser therapy and grafting
- Correctly resolve surgical pathologies that affect the gastrointestinal tract
- Solve a multitude of cases of the gastrointestinal system in a comprehensive manner
- Deal with genitourinary pathologies
- Perform surgical processes that affect the urinary tract
- Solve complications in this area
- Diagnose and treat skin tumors
- Surgical management of soft tissue sarcomas, mastocytomas or cutaneous and subcutaneous tumors, among others
- Diagnose diseases which affect the liver, spleen, thyroid glands, adrenal gland, pancreas or endocrine system
- Choose the most appropriate treatments in each case
- Recognise the main diseases which affect the head and neck
- Diagnose and treat said diseases
- Use the most appropriate material in each of the interventions
- Use the most advanced techniques in interventions related to the thoracic cavity
- Solve the most common complications that occur in thoracic cavity surgery
- Use the most appropriate techniques and therapeutic plans for resolving the different umbilical, inguinal, scrotal and traumatic hernias
- Use the most appropriate laparoscopic techniques for small animals
- Understand interventional radiology, its main uses and how to apply it in practice

05

Course Management

This program includes professionals from different areas related to veterinary surgery in its teaching staff. This team has put its knowledge and experience into the development of this Hybrid Professional Master's Degree, with the aim of guiding the student to better understand the functioning of this specialty, from a multidisciplinary approach and with a highly innovative perspective.

Learning from the best professionals in the industry will provide you with invaluable opportunities"

International Guest Director

Dr. Wendy Baltzer is a leading figure in the international veterinary community. Her passion and extensive experience in Veterinary Medicine have led her to become involved in the field of research in **Small Animal Veterinary Surgery**. In this way, she has multiple publications in academic and scientific media, most of them very well positioned, reflecting an **index H 20** in **Google Scholar**.

Likewise, in her studies reflected in publications she defends the use of ultrasound and radiographs to predict the time of delivery in small animals, thereby reducing the likelihood of neonatal morbidity and mortality. In addition, she associates a decrease in pup vitality with the use of thiobarbiturates, ketamine and inhalation anesthetics.

Similarly, her work also focuses on the effects of oxidative stress on agility exercise in dogs, ligament and tendon injuries, improved impulse fracture repair, as well as injuries in working, sport, police and military dogs. She has also devoted much of her studies to **osteoarthritis, low back pain**, taping techniques and omentum grafting for bone healing.

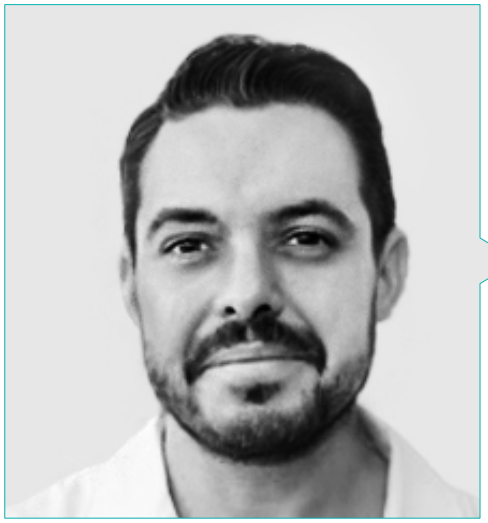
She has taught at major academic institutions such as the **School of Veterinary Science** at **Massey University**, as well as **Oregon State University**. In the latter, she held a position of high responsibility, occupying the position of director of its Rehabilitation Center. Likewise, her work at **Sydeny University** focuses on teaching the clinical practice of **Small Animal Surgery,** while continuing to develop her research in the fields of **Surgery, Sports Medicine** and **Rehabilitation**.

Dr. Baltzer, Wendy

- Head of Veterinary Surgery at the University of Sydney
- Director of the Rehabilitation Center at the University of Oregon
- Associate Professor in the School of Veterinary Science at the University of Sydney
- Ph.D. in Veterinary Physiology, Texas A&M University
- Specialist in Small Animal Surgery at Texas A&M University

Thanks to TECH, you will be able to learn with the best professionals in the world"

Management



Dr. Ortiz Díez, Gustavo

- Head of Small Animal Unit at Complutense Clinical Veterinary Hospital
- Head of the Department of Soft Tissue Surgery and Minimally Invasive Procedures at the Veterinary Specialties Hospital 4 Octubre Spain)
- AVEPA Accredited Soft Tissue in Surgery
- 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
- PhD and Undergraduate Degree in Veterinary Medicine 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
- ICT competencies course for teachers by UNED
- Member of the scientific committee and current president of AVEPAs Soft Tissue Surgery Specialty Group)

Professors

Dr. Suárez Redondo, María

- Small Animal Surgeon at the Complutense University of Madrid Veterinary Clinical Hospital
- Doctoral Graduate, Complutense University, Madrid
- Degree in Veterinary Medicine from the University of Leon
- Master in Traumatology and Surgery Orthopedic from the Complutense University of Madrid

Dr. García Fernández, Paloma

- Head of Small Animal Unit at from the University Complutense Clinical Veterinary Hospital of Madrid
- Professor of Surgery and Anesthesia, Department of Animal Medicine and Surgery, Faculty of Veterinary Medicine, Hospital Clínico Veterinario, Universidad Complutense de Madrid
- PhD in Veterinary Medicine, Complutense University of Madrid
- Degree in Veterinary Medicine from from Madrid's Veterinary University

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 Small Animal Surgery at the University of Extremadura
- Member of the Association Spanish Veterinarians of Specializing in Small Animals (AVEPA)

Dr. López Gallifa, Raúl

- Veterinary Specialists in the Small Animals Surgery Service at Alfonso X El Sabio University
- University of North Carolina Clinical Fellow
- PhD from University of Alfonso X el Sabio
- Degree in Veterinary Medicine from Alfonso X El Sabio University
- Master's Degree in of soft tissue and Surgery at the Clinical symptoms Veterinary Hospital of Alfonso X el Sabio University

06

Educational Plan

The structure and contents of this Hybrid Professional Master's Degree have been designed by a group of high-level professionals, based on the highest scientific rigor and using as a criterion the utmost topicality. In this way, the graduate veterinarian will ensure that they will contribute to their area of work in a highly efficient manner and will be able to position themselves at the forefront of the industry.

The study plan that TECH makes available to you is designed to help you make learning an easier and more effective process"

Module 1. Basic Principles of Soft Tissue Surgery. Medical-surgical Techniques. Exploratory Laparotomy

1.1. Principles of Asepsis and Sterilization
- 1.1.1. Definition of the Concepts of Asepsis, Antisepsis and Sterilization
- 1.1.2. Main Methods for Disinfection
- 1.1.3. Main Methods for Sterilization

1.2. The Operating Room
- 1.2.1. Preparation of Surgical Personnel
- 1.2.2. Hand Washing
- 1.2.3. clothing
- 1.2.4. Preparation of the Operating Environment
- 1.2.5. Sterilization Maintenance

1.3. Instruments
- 1.3.1. General Materials
- 1.3.2. Specific Materials

1.4. Hemostasis. Sutures. Alternative Hemostasis Methods
- 1.4.1. Hemostasis Physiopathology
- 1.4.2. Suture Features
- 1.4.3. Suture Materials
- 1.4.4. Suture Patterns
- 1.4.5. Alternative Techniques of Hemostatis

1.5. Surgical Site Infection (SSI)
- 1.5.1. Nosocomial Infections
- 1.5.2. Definition of SSI Types of ISQ
- 1.5.3. Types of Surgery
- 1.5.4. Risk Factors
- 1.5.5. Treatment of SSI
- 1.5.6. Use of Antimicrobials
- 1.5.7. Precautions to Avoid SSI

1.6. Surgical Defects. Bandages and Drainage
- 1.6.1. Use of Cutting Instruments
- 1.6.2. Use of Gripping Instruments
- 1.6.3. Use of Retractors
- 1.6.4. Aspiration
- 1.6.5. Bandages
- 1.6.6. Drainages

1.7. Electrosurgery and Lasers
- 1.7.1. Physical Principles
- 1.7.2. Monopolar
- 1.7.3. Bipolar
- 1.7.4. Sealants
- 1.7.5. Basic Rules of Use
- 1.7.6. Main Techniques
- 1.7.7. Laser
  - 1.7.7.1. CO2 Laser
  - 1.7.7.2. Diode Laser

1.8. Postsurgical Monitoring and Care
- 1.8.1. Nutrition
- 1.8.2. Pain Management
- 1.8.3. Decubitus Patients
- 1.8.4. Renal Monitoring
- 1.8.5. Hemostasis
- 1.8.6. Hyperthermia and Hypothermia
- 1.8.7. Anorexia

1.9. Medical-surgical Procedures
- 1.9.1. Feeding Tubes
  - 1.9.1.1. Nasoesophageal
  - 1.9.1.2. Esophagostomy
  - 1.9.1.3. Gastronomy

1.9.2. Thoracostomy Tubes
1.9.3. Temporary Tracheostomy
1.9.4. Other Procedures
1.9.4.1. Abdominocentesis
1.9.4.2. Jejunostomy Probes
1.10. Exploratory Laparotomy. Abdominal Cavity Closure
1.10.1. Abdominal Opening and Closure
1.10.2. Topographic Anatomy

Module 2. Skin. Treatment of Wounds and Reconstructive Surgery

2.1. Skin: Anatomy, Vascularization and Tension
2.1.1. Skin Anatomy
2.1.2. Vascular Contribution
2.1.3. Correct Treatment of the Skin
2.1.4. Tension Lines
2.1.5. Ways to Manage Tension
2.1.5.1. Sutures
2.1.5.2. Local Techniques
2.1.5.3. Flap Types
2.2. Pathophysiology of Healing
2.2.1. Inflammatory Phase
2.2.2. Types of Debridement
2.2.3. Proliferative Phase
2.2.4. Maturation Phase
2.2.5. Local Factors Which Affect Healing
2.2.6. Systemic Factors Which Affect Healing
2.3. Wounds: Types and How to Treat Them
2.3.1. Types of Wounds (Etiology)
2.3.2. Wound Assessment
2.3.3. Wound Infection
2.3.3.1. Surgical Site Infection (SSI)
2.3.4. Wound Management
2.3.4.1. Preparation and Cleaning
2.3.4.2. Dressings
2.3.4.3. Bandages
2.3.4.4. Antibiotics: Yes or No
2.3.4.5. Other Medication
2.4. New Techniques to Aid Healing
2.4.1. Laser Therapy
2.4.2. Vacuum Systems
2.4.3. Others
2.5. Plasties and Subdermal Plexus Flaps
2.5.1. Z-plasty, V-Y Plasty
2.5.2. Bow-tie Technique
2.5.3. Advance Flaps
2.5.3.1. U
2.5.3.2. H
2.5.4. Rotation Flaps
2.5.5. Transposition Flaps
2.5.5.1. Interpolation Flaps
2.6. Other Flaps. Grafts
2.6.1. Pedicle Flaps
2.6.1.1. What They Are and Why Do They Work?
2.6.1.2. Most Common Pedicle Flaps
2.6.2. Muscle and Myocutaneous Flaps
2.6.3. Grafts
2.6.3.1. Indications
2.6.3.2. Types
2.6.3.3. Bedding Requirements
2.6.3.4. Collection and Preparation Technique
2.6.3.5. Postoperative Care

2.7. Common Head Injuries
- 2.7.1. Eyelids
  - 2.7.1.1. Techniques for Eyelid Reconstruction
  - 2.7.1.2. Advance Flaps
    - 2.7.1.2.1. Rotation
    - 2.7.1.2.2. Transposition
  - 2.7.1.3. Superficial Temporalis Axial Flap
- 2.7.2. Nose
  - 2.7.2.1. Rotation Flaps
  - 2.7.2.2. *Lip to Nose* Plasty
- 2.7.3. Lips
  - 2.7.3.1. Direct Closure
  - 2.7.3.2. Advance Flaps
  - 2.7.3.3. Rotation Flaps. *Lip to Eye*
- 2.7.4. Ears

2.8. Neck and Torso Techniques
- 2.8.1. Advance Flaps
- 2.8.2. Myocutaneous Flap of the *Latissimus Dorsi*
- 2.8.3. Axillary Crease and Inguinal Crease
- 2.8.4. Cranial Epigastric Axial Flap
- 2.8.5. Episioplasty

2.9. Techniques for Wounds and Defects in the Extremities (I)
- 2.9.1. Problems Related to Compression and Tension
  - 2.9.1.1. Alternative Closure Methods
- 2.9.2. Thoracodorsal Axial Flap
- 2.9.3. Lateral Thoracic Axial Flap
- 2.9.4. Superficial Brachial Axial Flap
- 2.9.5. Caudal Epigastric Axial Flap

2.10. Techniques for Wounds and Defects in the Extremities (II)
- 2.10.1. Problems Related to Compression and Tension
- 2.10.2. Axial Flap of the Deep Iliac Circumflex (Dorsal and Ventral Branches)
  - 2.10.2.1. Genicular Axial Flap
  - 2.10.2.2. Reverse Saphenous Flap
  - 2.10.2.3. Pads and Interdigital Pads

Module 3. Gastrointestinal Surgery

3.1. Anatomy of the Gastrointestinal Tract
- 3.1.1. Stomach
- 3.1.2. Small Intestine
- 3.1.3. Large Intestine

3.2. General Aspects
- 3.2.1. Sutures and Materials
- 3.2.2. Laboratory and Imaging Tests

3.3. Stomach
- 3.3.1. Surgical Principles
- 3.3.2. Clinical Stomach Pathologies
- 3.3.3. Foreign Bodies
- 3.3.4. Gastric Dilatation-Volvulus Syndrome
- 3.3.5. Gastropexy
- 3.3.6. Gastric Retention and Obstruction
- 3.3.7. Gastroesophageal Intussusception
- 3.3.8. Hiatal Hernia
- 3.3.9. Neoplasty

3.4. Surgical Techniques
- 3.4.1. Biopsy Sampling
- 3.4.2. Gastrotomy
- 3.4.3. Gastrectomy
  - 3.4.3.1. Simple Gastrectomy
  - 3.4.3.2. Billroth I
  - 3.4.3.3. Billroth II

3.5. Small Intestine
- 3.5.1. Surgical Principles
- 3.5.2. Clinical Pathologies of the Small Intestine
  - 3.5.2.1. Foreign Bodies
    - 3.5.2.1.1. Non-linear
    - 3.5.2.1.2. Linear
  - 3.5.2.2. Duplication of the Intestinal Wall
  - 3.5.2.3. Intestinal Perforation

3.5.2.4. Intestinal Incarceration
3.5.2.5. Intestinal Intussusception
3.5.2.6. Mesenteric Volvulus
3.5.2.7. Neoplasty
3.6. Surgical Techniques
3.6.1. Biopsy Sampling
3.6.2. Enterotomy
3.6.3. Enterectomy
3.6.4. Enteroplication
3.7. Large Intestine
3.7.1. Surgical Principles
3.7.2. Clinical Pathologies
3.7.2.1. Ileocolic Intussusception or Cecal Inversion
3.7.2.2. Megacolon
3.7.2.3. Transmural Migration
3.7.2.4. Neoplasty
3.8. Surgical Techniques
3.8.1. Biopsy Sampling
3.8.2. Typhlectomy
3.8.3. Colopexy
3.8.4. Colotomy
3.8.5. Colectomy
3.9. Rectum
3.9.1. Surgical Principles
3.9.2. Clinical Pathologies and Rectum Surgical Techniques
3.9.2.1. Rectal Prolapse
3.9.2.2. Anal Atresia
3.9.2.3. Neoplasty
3.10. Perianal Zone and Anal Sacs
3.10.1. Pathology and Perianal Area Surgical Technique
3.10.1.1. Perianal Fistulas
3.10.1.2. Neoplasms
3.10.2. Pathologies and Anal Sacs Surgical Techniques

Module 4. Genitourinary Surgery. Mammary Surgery

4.1. Introduction to Urogenital Surgical Pathology
4.1.1. Surgical Principles Applied in Urogenital Surgery
4.1.2. Surgical Material Used
4.1.3. Suture Materials
4.1.4. Pathophysiology of Urinary Surgical Problems: Introduction
4.1.5. Urinary Obstruction
4.1.6. Urinary Trauma
4.2. Kidney
4.2.1. Anatomy Recap
4.2.2. Techniques (I)
4.2.2.1. Renal Biopsy
4.2.2.2. Nephrotomy. Pyelolithotomy
4.2.3. Techniques (II)
4.2.3.1. Nephrectomy
4.2.3.2. Nephropexy
4.2.3.3. Nephrostomy
4.2.4. Congenital Diseases
4.2.5. Renal Trauma
4.2.6. Infection. Abscesses
4.3. Urether
4.3.1. Anatomy Recap
4.3.2. Techniques (I)
4.3.2.1. Ureterotomy
4.3.2.2. Anastomosis
4.3.3. Techniques (II)
4.3.3.1. Ureteroneocystostomy
4.3.3.2. Neoureterostomy
4.3.4. Congenital Diseases
4.3.5. Urethral Trauma
4.3.6. Ureteral Obstruction
4.3.6.1. New Techniques

4.4. Bladder
- 4.4.1. Anatomy Recap
- 4.4.2. Techniques (I)
  - 4.4.2.1. Cystotomy
  - 4.4.2.2. Cystectomy
- 4.4.3. Techniques (II)
  - 4.4.3.1. Cystopexy. Serosal Patch
  - 4.4.3.2. Cystostomy
  - 4.4.3.3. Boari Flap
- 4.4.4. Congenital Diseases
- 4.4.5. Bladder Trauma
- 4.4.6. Bladder Lithiasis
- 4.4.7. Bladder Torsion
- 4.4.8. Neoplasms

4.5. Urethra
- 4.5.1. Anatomy Recap
- 4.5.2. Techniques (I)
  - 4.5.2.1. Urethrotomy
  - 4.5.2.2. Anastomosis
- 4.5.3. Techniques (II): Urethrostomy
  - 4.5.3.1. Introduction
  - 4.5.3.2. Feline Perineal Urethrostomy
  - 4.5.3.3. Canine Pre-scrotal Urethrostomy
  - 4.5.3.4. Other Urethrostomies
- 4.5.4. Congenital Diseases
- 4.5.5. Urethral Trauma
- 4.5.6. Urethral Obstruction
- 4.5.7. Urethral Prolapse
- 4.5.8. Sphincter Incompetence

4.6. Ovaries, Uterus, Vagina
- 4.6.1. Anatomy Recap
- 4.6.2. Techniques (I)
  - 4.6.2.1. Ovariectomy
  - 4.6.2.2. Ovariohysterectomy
- 4.6.3. Techniques (II)
  - 4.6.3.1. Cesarean Section
  - 4.6.3.2. Episiotomy
- 4.6.4. Congenital Diseases
  - 4.6.4.1. Ovaries and Uterus
  - 4.6.4.2. Vagina and Vestibule
- 4.6.5. Ovarian Remnant Syndrome
  - 4.6.5.1. Effects of Gonadectomy
- 4.6.6. Pyometra
  - 4.6.6.1. Stump Pyometra
- 4.6.7. Uterine Prolapse and Vaginal Prolapse
- 4.6.8. Neoplasms

4.7. Penis, Testicles and Scrotum
- 4.7.1. Anatomy Recap
- 4.7.2. Techniques (I)
  - 4.7.2.1. Pre-scrotal Orchiectomy
  - 4.7.2.2. Feline Scrotal Orchiectomy
  - 4.7.2.3. Abdominal Orchiectomy
- 4.7.3. Techniques (II)
  - 4.7.3.1. Scrotum Ablation
  - 4.7.3.2. Penis Amputation
- 4.7.4. Techniques (III)
  - 4.7.4.1. Preputial Plasties
  - 4.7.4.2. Phallopexy
- 4.7.5. Congenital Alterations of the Penis and Foreskin
  - 4.7.5.1. Hypospadias
  - 4.7.5.2. Phimosis vs Paraphimosis
- 4.7.6. Congenital Alterations to the Testicles
  - 4.7.6.1. Anorchia/Monorchidism
  - 4.7.6.2. Cryptorchidism
- 4.7.7. Neoplasms in the Penis
- 4.7.8. Testicular Neoplasms

4.8. Prostate. Ancillary Techniques in Urogenital Surgery
- 4.8.1. Anatomy Recap
- 4.8.2. Techniques
  - 4.8.2.1. Omentalization
  - 4.8.2.2. Marsupialization
- 4.8.3. Prostatic Hyperplasia
- 4.8.4. Prostatic Cysts
- 4.8.5. Prostatitis and Prostatic Abscesses
- 4.8.6. Neoplasms
- 4.8.7. Auxiliary Techniques Catheterization and Cystopuncture
- 4.8.8. Abdomen Drainage

4.9. Complementary Tests in Urogenital Surgical Pathology
- 4.9.1. Diagnostic Imaging Techniques(I)
  - 4.9.1.1. Simple Radiography
  - 4.9.1.2. Contrast Radiography
- 4.9.2. Diagnostic Imaging Techniques (II)
  - 4.9.2.1. Ultrasound
- 4.9.3. Diagnostic Imaging Techniques (III)
- 4.9.4. Importance of Laboratory Diagnosis

4.10. Breast
- 4.10.1. Anatomy Recap
- 4.10.2. Techniques (I)
  - 4.10.2.1. Nodulectomy
  - 4.10.2.2. Lymphadenectomy
- 4.10.3. Techniques (II)
  - 4.10.3.1. Simple Mastectomy
  - 4.10.3.2. Regional Mastectomy
  - 4.10.3.3. Radical Mastectomy
- 4.10.4. Postoperative Care
  - 4.10.4.1. Analgesic Catheters
- 4.10.5. Hyperplasia and Pseudo-gestation
- 4.10.6. Canine Mammary Tumors
- 4.10.7. Feline Mammary Tumors

Module 5. Surgical Oncology. Basic Principles. Cutaneous and Subcutaneous Tumors

5.1. Principles of Surgical Oncology (I)
- 5.1.1. Pre-operative Considerations
- 5.1.2. Surgical Approach
- 5.1.3. Biopsies and Sample Collecting

5.2. Principles of Surgical Oncology (II)
- 5.2.1. Surgical Considerations
- 5.2.2. Definition of Surgical Margins
- 5.2.3. Cytoreductive and Palliative Surgeries

5.3. Principles of Surgical Oncology (III)
- 5.3.1. Post-operative Considerations
- 5.3.2. Adjuvant Therapy
- 5.3.3. Multimodal Therapy

5.4. Cutaneous and Subcutaneous Tumors. Soft Tissue Sarcomas (I)
- 5.4.1. Clinical Presentation
- 5.4.2. Diagnosis
- 5.4.3. Staging
- 5.4.4. Surgical Aspects

5.5. Cutaneous and Subcutaneous Tumors. Soft Tissue Sarcomas (II)
- 5.5.1. Reconstructive Surgery
- 5.5.2. Adjuvant Therapies
- 5.5.3. Paliative Procedures
- 5.5.4. Prognosis

5.6. Cutaneous and Subcutaneous Tumors. Mastocytoma (I)
- 5.6.1. Clinical Presentation
- 5.6.2. Diagnosis
- 5.6.3. Staging
- 5.6.4. Surgery (I)

5.7. Cutaneous and Subcutaneous Tumors. Mastocytoma (II)
- 5.7.1. Surgery (II)
- 5.7.2. Post-operative Recommendations
- 5.7.3. Prognosis

5.8. Cutaneous and Subcutaneous Tumors. Other Cutaneous and Subcutaneous Tumors (I)
- 5.8.1. Melanoma
- 5.8.2. Epitheliotropic Lymphoma
- 5.8.3. Hemangiosarcoma

5.9. Cutaneous and Subcutaneous Tumors. Other Cutaneous and Subcutaneous Tumors (II)
- 5.9.1. Cutaneous and Subcutaneous Benign Tumors
- 5.9.2. Feline Injection Site Sarcoma

5.10. Interventional Oncology
- 5.10.1. Material
- 5.10.2. Vascular Interventions
- 5.10.3. Non-Vascular Interventions

Module 6. Liver and Biliary System Surgery Spleen Surgery. Endocrine System Surgery

6.1. Liver Surgery. Basic Principles
- 6.1.1. Liver Anatomy
- 6.1.2. Liver Pathophysiology
- 6.1.3. General Principles of Liver Surgery
- 6.1.4. Hemostasis Techniques

6.2. Liver Surgery (II). Techniques
- 6.2.1. Hepatic biopsy
- 6.2.2. Partial Hepatectomy
- 6.2.3. Hepatic Lobectomy

6.3. Liver Surgery (III). Liver Cysts and Abscesses
- 6.3.1. Liver Tumors
- 6.3.2. Abscesos hepáticos

6.4. Liver Surgery (IV)
- 6.4.1. Portosystemic Shunt

6.5. Extrahepatic Biliary Tree Surgery
- 6.5.1. Anatomy
- 6.5.2. Techniques Cholecystectomy
- 6.5.3. Cholecystitis (Biliary Mucocele)
- 6.5.4. Bladder Stones

6.6. Spleen Surgery (I)
- 6.6.1. Spleen Anatomy
- 6.6.2. Techniques
  - 6.6.2.1. Ssplecnorraphy
  - 6.6.2.2. Partial Splenectomy
  - 6.6.2.3. Complete Splenectomy
    - 6.6.2.3.1. Three Clamp Technique Approach

6.7. Spleen Surgery (II)
- 6.7.1. Splenic Mass Approach
- 6.7.2. Hemoabdomen

6.8. Thyroid Gland Surgery
- 6.8.1. Anatomy Recap
- 6.8.2. Surgical Techniques
  - 6.8.2.1. Thyroidectomy
  - 6.8.2.2. Parathyroidectomy
- 6.8.3. Diseases
  - 6.8.3.1. Thyroid Tumors in Dogs
  - 6.8.3.2. Hyperthyroidism in Cats
  - 6.8.3.3. Hyperparathyroidism

6.9. Adrenal Gland Surgery
- 6.9.1. Anatomy Recap
- 6.9.2. Surgical Technique
  - 6.9.2.1. Adrenalectomy
  - 6.9.2.2. Hypophysectomy
- 6.9.3. Diseases
  - 6.9.3.1. Adrenal Adenomas/Adenocarcinomas
  - 6.9.3.2. Pheochromocytomas

6.10. Endocrine Pancreatic Surgery
- 6.10.1. Anatomy Recap
- 6.10.2. Surgical Technique
  - 6.10.2.1. Pancreatic Biopsy
  - 6.10.2.2. Pancreatectomy
- 6.10.3. Diseases
  - 6.10.3.1. Insulinoma

Module 7. Head and Neck Surgery

7.1. Salivary Glands
- 7.1.1. Anatomy
- 7.1.2. Surgical Technique
- 7.1.3. Sialocele

7.2. Laryngeal Paralysis
- 7.2.1. Anatomy
- 7.2.2. Diagnosis
- 7.2.3. Pre-operative Considerations
- 7.2.4. Surgical Techniques
- 7.2.5. Post-operative Considerations

7.3. Brachycephalic Syndrome (I)
- 7.3.1. Description
- 7.3.2. Syndrome Components
- 7.3.3. Anatomy and Physiopathology
- 7.3.4. Diagnosis

7.4. Brachycephalic Syndrome (II)
- 7.4.1. Pre-operative Considerations
- 7.4.2. Surgical Techniques
- 7.4.3. Post-operative Considerations

7.5. Tracheal Collapse
- 7.5.1. Anatomy
- 7.5.2. Diagnosis
- 7.5.3. Medical Management
- 7.5.4. Surgical Treatment

7.6. Ears (I)
- 7.6.1. Anatomy
- 7.6.2. Techniques
  - 7.6.2.1. Technique for Treating Otohematoma
  - 7.6.2.2. Aurectomy
  - 7.6.2.3. External Auditory Canal Ablation with Trephination of the Bulla
  - 7.6.2.4. Ventral Osteotomy of the Tympanic Bulla

7.7. Ears (II)
- 7.7.1. Diseases
  - 7.7.1.1. Otohematomas
  - 7.7.1.2. External Auricular Pavilion Tumors
  - 7.7.1.3. Terminal Otitis
  - 7.7.1.4. Nasopharyngeal Polyps

7.8. Oral and Nasal Cavity (I)
- 7.8.1. Anatomy
- 7.8.2. Techniques
  - 7.8.2.1. Maxillectomy
  - 7.8.2.2. Mandibulectomy
  - 7.8.2.3. Techniques for Oral Cavity Reconstruction
  - 7.8.2.4. Rhinotomy

7.9. Oral and Nasal Cavity (II)
- 7.9.1. Diseases
  - 7.9.1.1. Oral and Lip Tumors
  - 7.9.1.2. Nasal Cavity Tumors
  - 7.9.1.3. Aspergillosis
  - 7.9.1.4. Cleft Palate
  - 7.9.1.5. Oronasal Fistulas

7.10. Other Head and Neck Diseases
- 7.10.1. Nasopharyngeal Stenosis
- 7.10.2. Laryngeal Tumors
- 7.10.3. Tracheal Tumors
- 7.10.4. Cricopharyngeal Achalasia

Module 8. Thoracic Cavity Surgery

8.1. Pleural Cavity Surgery (I)
- 8.1.1. Basic Principles and Anatomy
- 8.1.2. Pleural Effusions
  - 8.1.2.1. Pleural Drainage Techniques

8.2. Pleural Cavity Surgery (II)
- 8.2.1. Clinical Pathologies
  - 8.2.1.1. Trauma
  - 8.2.1.2. Pneumothorax
  - 8.2.1.3. Chylothorax
    - 8.2.1.3.1. Thoracic Duct Ligation
    - 8.2.1.3.2. Cisterna Chyli Ablation
  - 8.2.1.4. Pyothorax
  - 8.2.1.5. Hemothorax
  - 8.2.1.6. Malignant Pleural Effusion
  - 8.2.1.7. Benign Cysts
  - 8.2.1.8. Neoplasty

8.3. Rib Wall Surgery
- 8.3.1. Basic Principles and Anatomy
- 8.3.2. Clinical Pathologies
  - 8.3.2.1. Floating Thorax
  - 8.3.2.2. *Pectus Excavatum*
- 8.3.3. Neoplasty

8.4. Diagnostic Methods
- 8.4.1. Laboratory Tests
- 8.4.2. Imaging Tests

8.5. Thorax Surgery Approaches
- 8.5.1. Instruments and Material
- 8.5.2. Types of Thorax Approach
  - 8.5.2.1. Intercostal Thoracotomy
  - 8.5.2.2. Thoracotomy for Costal Resection
  - 8.5.2.3. Median Sternotomy
  - 8.5.2.4. Transsternal Thoracotomy
  - 8.5.2.5. Transdiaphragmatic Thoracotomy
- 8.5.3. Restoration of Negative Pressure

8.6. Lung Surgery
- 8.6.1. Basic Principles and Anatomy
- 8.6.2. Surgical Techniques
  - 8.6.2.1. Partial Lobectomy
  - 8.6.2.2. Total Lobectomy
  - 8.6.2.3. Pneumonectomy
- 8.6.3. Clinical Pathologies
  - 8.6.3.1. Trauma
  - 8.6.3.2. Pulmonary Abscess
  - 8.6.3.3. Pulmonary Torsion
  - 8.6.3.4. Neoplasty

8.7. Heart Surgery (I)
- 8.7.1. Basic Principles and Anatomy
- 8.7.2. Surgical Techniques
  - 8.7.2.1. Pericardiocentesis
  - 8.7.2.2. Partial Pericardiectomy
  - 8.7.2.3. Partial Auriculectomy
  - 8.7.2.4. Pacemaker Insertion

8.8. Heart Surgery (II)
- 8.8.1. Clinical Pathologies
  - 8.8.1.1. Septal Defects
  - 8.8.1.2. Pulmonary Stenosis
  - 8.8.1.3. Subaortic Stenosis
  - 8.8.1.4. Tetralogy of Fallot
  - 8.8.1.5. Pericardial Effusion
  - 8.8.1.6. Neoplasty

8.9. Vascular Anomolies and Vascular Rings
- 8.9.1. Basic Principles and Anatomy
- 8.9.2. Clinical Pathologies
  - 8.9.2.1. Persistent Ductus Arteriosus
  - 8.9.2.2. Persistent Right Aortic Arch

8.10. Thoracic Esophageal Surgery
- 8.10.1. Basic Principles and Anatomy
- 8.10.2. Surgical Techniques
  - 8.10.2.1. Esophagotomy
  - 8.10.2.2. Esophagectomy
- 8.10.3. Clinical Pathologies
  - 8.10.3.1. Foreign Bodies
  - 8.10.3.2. Idiopathic Megaesophagus
  - 8.10.3.3. Neoplasty

Module 9. Amputations: Thoracic Limb, Pelvic Limb, Caudectomy, Phalanges. Umbilical, Inguinal, Scrotal, Traumatic, Perineal, Diagrammatic and Peritoneopericardial Diaphragmatic Hernias

9.1. Thoracic Limb Amputation
- 9.1.1. Indications
- 9.1.2. Pre-operative Considerations. Patient and owner selection and aesthetic considerations
- 9.1.3. Surgical Techniques
  - 9.1.3.1. With Scapulectomy
  - 9.1.3.2. Humeral Osteotomy
- 9.1.4. Post-operative Considerations
- 9.1.5. Short and Long-Term Complications

9.2. Pelvic Limb Amputation
- 9.2.1. Indications
- 9.2.2. Patient Selection. Esthetic Considerations
- 9.2.3. Pre-operative Considerations
- 9.2.4. Surgical Techniques
  - 9.2.4.1. Coxofemoral Disarticulation
  - 9.2.4.2. Femoral and Tibial Osteotomy
  - 9.2.4.3. Hemipelvectomy
- 9.2.5. Post-operative Considerations
- 9.2.6. Complications

9.3. Diseases
- 9.3.1. Osteosarcoma
- 9.3.2. Other Bone Tumors
- 9.3.3. Trauma, Old Articular Fractures, Osteomyelitis

9.4. Other Amputations
- 9.4.1. Phalange Amputation
- 9.4.2. Caudectomy
- 9.4.3. Tumors that Affect the Phalanges

9.5. Umbilical, Inguinal, Scrotal and Traumatic Hernias
- 9.5.1. Umbilical Hernia
- 9.5.2. Inguinal Hernia
- 9.5.3. Scrotal Hernia
- 9.5.4. Traumatic Hernias

9.6. Traumatic Hernias
- 9.6.1. Polytraumatized Patient Care
- 9.6.2. Pre-operative Considerations
- 9.6.3. Surgical Techniques
- 9.6.4. Post-operative Considerations

9.7. Perineal Hernia (I)
- 9.7.1. Anatomy
- 9.7.2. Pathophysiology
- 9.7.3. Types of Perineal Hernias
- 9.7.4. Diagnosis

9.8. Perineal Hernia (II)
- 9.8.1. Preoperative Considerations
- 9.8.2. Surgical Techniques
- 9.8.3. Postoperative Considerations
- 9.8.4. Complications

9.9. Diaphragmatic Hernia
- 9.9.1. Diaphragmatic Hernia
  - 9.9.1.1. Anatomy
  - 9.9.1.2. Diagnosis
  - 9.9.1.3. Preoperative Considerations
  - 9.9.1.4. Surgical Techniques
  - 9.9.1.5. Postoperative Considerations

9.10. Peritoneopericardial Diaphragmatic Hernia
- 9.10.1. Anatomy
- 9.10.2. Diagnosis
- 9.10.3. Preoperative Considerations
- 9.10.4. Surgical Techniques
- 9.10.5. Postoperative Considerations

Module 10. Minimally Invasive Surgery. Laparoscopy. Thoracoscopy. Interventional Radiology

10.1. History and Advantages/ Disadvantages of Minimally Invasive Surgery
- 10.1.1. History of Laparoscopy and Thoracoscopy
- 10.1.2. Advantages and Disadvantages
- 10.1.3. New Perspectives

10.2. Equipment and Instruments
- 10.2.1. Equipment
- 10.2.2. Instruments

10.3. Laparoscopy Techniques. Training Program
- 10.3.1. Laparoscopy Sutures
  - 10.3.1.1. Conventional Sutures
  - 10.3.1.2. Mechanical Sutures
- 10.3.2. Laparoscopy Training Program

10.4. Laparoscopy (I). Approaches
- 10.4.1. Techniques for Performing Pneumoperitoneum Surgery
- 10.4.2. Port Placement
- 10.4.3. Ergonomics

10.5. Laparoscopy (II). Most Common Techniques
- 10.5.1. Ovariectomy
- 10.5.2. Abdominal Cryptorchidism
- 10.5.3. Preventive Gastropexy
- 10.5.4. Hepatic biopsy

10.6. Laparoscopy (III). Less Common Techniques
- 10.6.1. Cholecystectomy
- 10.6.2. Assisted Cystoscopy
- 10.6.3. Digestive Examination
- 10.6.4. Splenectomy
- 10.6.5. Biopsy
  - 10.6.5.1. Renal
  - 10.6.5.2. Pancreatic
  - 10.6.5.3. Lymph Nodes

10.7. Thoracoscopy (I). Approaches. Specific Materials
- 10.7.1. Specific Materials
- 10.7.2. Most Common Approaches. Port Placement

10.8. Thoracoscopy (II). Most Common Techniques. Pericardiectomy
- 10.8.1. Indications and Techniques for Pericardiectomy
- 10.8.2. Pericardial Examination. Subtotal Pericardiectomy Versus Pericardial Window

10.9. Thoracoscopy (II). Less Common Techniques
- 10.9.1. Pulmonary Biopsy
- 10.9.2. Pulmonary Lobectomy
- 10.9.3. Chylothorax
- 10.9.4. Vascular Rings

10.10. Interventional Radiology
- 10.10.1. Equipment
- 10.10.2. More Common Techniques

07

Clinical Internship

After passing the online academic part, the program includes a period of practical training in a reference Veterinary Center. The student will have, at their disposal the support of a tutor who will accompany them during the whole process, both in the preparation and in the development of the clinical internship.

You will be able to learn from a practical stay in a prestigious Veterinary Center"

Throughout this program in Small Animal Veterinary Surgery, students will develop a practical stay in a prestigious center. This program will last 3 weeks and will be developed in 8-hour days from Monday to Friday. The entire educational process will have the personalized guidance of an assistant tutor who will be in charge of supervising the students' activity with a view to the intervention of real cases. At the same time, students will be integrated into a team of veterinary professionals of excellence, who will facilitate the learning of the most innovative and non-invasive surgical procedures for small animals.

In this training proposal, of a completely practical nature, the activities are aimed at the development and improvement of the competencies necessary for the provision of veterinary care in small animals that require a high level of qualification, and which are oriented to the specific training for the exercise of the professional activity.

It is, without a doubt, an opportunity to learn by working in a first class veterinary facility. In addition, it is a new way of understanding and integrating surgical interventions on animals, acquiring the essential skills that will make the student shine in their future work scenarios.

Practical teaching 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 training partners that facilitate teamwork and multidisciplinary integration as transversal competencies for the practice of Veterinary Surgery (learning to be and learning to relate).

The procedures described below will be the basis of the practical part of the training, and their implementation will be subject to the center's own availability and workload, the proposed activities being the following:

Module	Practical Activity
Updated Surgical Techniques for Small Animal Veterinary Surgery	Take biopsies and apply gastrointestinal surgery variants such as Enterotomy, Enterectomy and Enteroplication
	Perform variants of genitourinary surgeries such as Nephrotomy, Pyelolithotomy, Nephrectomy, Nephropexy, Nephrostomy
	Apply cytoreductive and palliative surgeries for veterinary oncologic tumors
	Compile and develop available flap techniques for skin reconstruction in animals
Up-to-date surgical technologies for small animal veterinary surgery	Use of monopolar, bipolar and sealant electrosurgery in small animals
	Implement the application of lasers for specific surgical procedures affecting small animals
	Develop different variants of laparoscopy for animals, including cholecystectomy, assisted cystoscopy, splenectomy, among others
Updated trends for the diagnosis of pathologies in small animals	Apply exploratory laparotomy for gastrointestinal problems
	Integrating radiodiagnostics to determine the cause of various pathologies in Small Animals
Contemporary control activities to prevent the development of postoperative infections in small animals	Practice monitoring and post-surgical care related to the nutrition of the veterinary patient, renal evolution and pain management
	Implement feeding tubes, thoracostomy tubes and other recovery techniques
	Apply principles of asepsis and sterilization suitable for animal health in the operating room

Receive specialized education in an institution that can offer you all these possibilities, with an innovative academic program and a human team that will help you develop your full potential"

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 achievingthis 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 of the Internship Program

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?

One of the elements that makes this program unique is the possibility of being studied in different veterinary centers throughout the country. In this way, TECH strengthens its commitment to affordable quality education for all people. An unprecedented fact that makes this program a benchmark in the Spanish educational panorama.

If you want to learn from the experience of expert veterinarians in surgery, then this training is for you"

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

Veterinarea Hospital Veterinario Villalba

Country: Spain
City: Madrid

Address: Avenida de Reina Victoria nº 9 28430 Alpedrete, Madrid

Clinical Symptoms Veterinarian Specialised in exotic animals

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

Centro Quirúrgico Veterinario Algabeño

Country: Spain
City: Madrid

Address: Calle de José Rizal, 57, Madrid

Veterinary Center specialized in reproductive, oral, digestive, ophthalmic, otic, plastic and reconstructive, urological and urinary tract surgery.

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

Mastervet

Country: Spain
City: Madrid

Address: Calle de Nuria, 57 Madrid

Veterinary center specialized in the training of professionals based on the latest techniques available.

Related internship programs:
- Exotic Animal Medicine and Surgery
- Veterinary Surgery in Small Animals

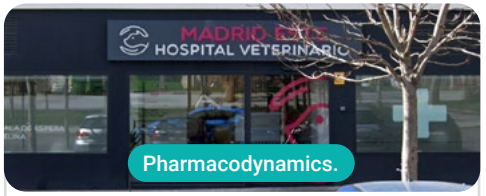
Centro Veterinario Fuente del Moral

Country: Spain
City: Madrid

Address: Avda. de la Salud, 12, 28411 Moralzarzal

The veterinary center specializing in the care of dogs and cats

Related internship programs:
-Veterinary Anesthesiology
- Small Animal Ultrasonography



Madrid Este Hospital Veterinario

Country: Spain
City: Madrid

Address: Paseo de la Democracia, 10

Veterinary center offering 24-hour care with surgery, ICU, hospitalization and diagnostic imaging services. and diagnostic imaging services.

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

Hospital Artemisa Cañaveral

Country: Spain
City: Madrid

Address: Francisco Grande Covian, local 1, 28052 Madrid

Veterinary Hospital specialized in General and care of 24 hour emergency service

Related internship programs:
Professional Master's Degree in Veterinary Surgery in Small Animals

Supervet

Country: Spain
City: Madrid

Address: Calle de Fermín Caballero, 56, 28034 posterior, Madrid

Center specialized in alternative therapies such as homeopathy, acupuncture, physiotherapy, laser or magnetotherapy.

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

Centro Veterinario La Caleta MiVet

Country: Spain
City: Malaga

Address: Av. de Andalucía, 126, 29751 Caleta de Vélez, Málaga

Centro Veterinario La Caleta is a high level center specialized in general and integral care.

Related internship programs:
- Dermatology in Small Animals
- Veterinary Emergencies in Small Animals

Hospital Veterinario Málaga Este MiVet

Country: Spain
City: Malaga

Address: Avenida Infanta Elena, 29740 Torre del Mar, Málaga

The only veterinary hospital in the East zone of Malaga with 24 hours emergency attention

Related internship programs:
- Management and Administration of Veterinary Centers
- Veterinary Emergencies in Small Animals

Hospital Veterinario La Fortuna MiVet

Country: Spain
City: Madrid

Address: C. de San Pedro, 29, 28917 Leganés, Madrid

Clinic specializing in the comprehensive care of the sick animal and in clinical problems difficult to diagnose

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

Hospital Veterinario MiVet Maresme

Country: Spain
City: Barcelona

Address: Camí de la Geganta, 113, 08302 Mataró, Barcelona

24-hour care hospital in Mataró

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

Animalia BCN MiVet

Country: Spain
City: Barcelona

Address: Carrer de la Creu Coberta, 130, Barcelona

Veterinary Hospital in Barcelona with 24h attention 365 days a year

Related internship programs:
- Dermatology in Small Animals
-Physiotherapeutic and Rehabilitation of Small Animals

Veterinario Sant Morí MiVet

Country: Spain
City: Barcelona

Address: Av. d'Alfons XIII, 571, 08918 Badalona, Barcelona

Veterinary Hospital in Badalona Barcelona with 24h attention 365 days a year

Related internship programs:
-Veterinary Anesthesiology
- Small Animal Ultrasonography

Hospital Veterinario MiVet Faycan Catarroja

Country: Spain
City: Valencia

Address: Carrer Charco, 15, 46470 Catarroja, Valencia

Comprehensive animal care clinic with 24-hour emergency and hospitalization service.

Related internship programs:
- Veterinary Surgery in Small Animals

Hospitaria Elche MiVet

Country: Spain
City: Alicante

Address: Avda. Libertad, 144 03205 Elche (Alicante)

Veterinary Sector benchmark clinical with more than 32 years of experience.. They offer services 24 hours a day, 365 days a year

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

Centro Veterinario MiVet Onteniente

Country: Spain
City: Valencia

Address: Av. d'Albaida, 12, 46870 Ontinyent, Valencia

Veterinary Hospital with state-of-the-art facilities facilities and with specialized attention 24 hours a day.

Related internship programs:
- Veterinary Traumatology and Orthopedic Surgery
- Small Animal Ultrasonography

Centro Veterinario MiVet Faucan Cartagena

Country: Spain
City: Murcia

Address: Av. Juan Carlos I, 5, 30310 Cartagena, Murcia

Veterinary Hospital with state-of-the-art facilities facilities and with specialized attention 24 hours a day.

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

Hospital Veterinario Miramadrid MiVet

Country: Spain
City: Madrid

Address: 63 C. Real, Paracuellos de Jarama, Madrid

Veterinary hospital with specialized care 24 hours a day and 7 days a week

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

Hospital Veterinario Mon Can MiVet

Country: Spain
City: Madrid

Address: Av. de Montecarmelo, 55, 28049 Madrid

Veterinary Hospital specializing in the comprehensive care of the sick animal and in clinical problems difficult to diagnose

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

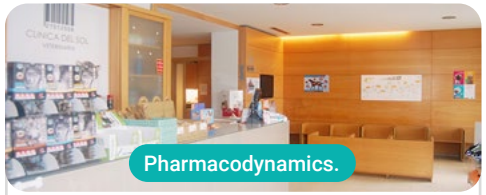
Hospital Veterinario Avenida MiVet

Country: Spain
City: Vizcaya

Address: Sabino Arana Etorbidea, 18 48013 Bilbao, Bizkaia

General veterinary clinic with 24-hour service 24 hours a day

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



Centro Veterinario Del Sol MiVet

Country: Spain
City: La Coruña

Address: Avenida de la Habana 22, 15011 - La Coruña

Veterinary Centers specialized in Integrals and care of 24 hour emergency service

Related internship programs:
-Veterinary Surgery in Small Animals

Clínica Veterinaria la Navata

Country
Spain

City
Madrid

Address: Centro Comercial Mercadona, Av. de las Víctimas del Terrorismo, 1, 28420 Galapagar, Madrid

Veterinary center with specialized attention to pets

Related internship programs:
- 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

Pharmacodynamics.

Centro Veterinario Puebla

Country: Mexico
City: Puebla

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

Veterinary Centers a generalist to care of 24 hour emergency service

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

Pharmacodynamics.

Hospital Veterinario Animalitos

Country: Mexico
City: Baja California Sur

Address: Bulevar pino pallas #244 Villas del Encanto La Paz B.C.S C.P 23085

General veterinary center and high specialties

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

Pharmacodynamics.

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

Pharmacodynamics.

Meds for pets

Country: Mexico
City: Nuevo León

Address: Av. Venustiano Carranza 429 Centro C.P 64000

Advanced and Comprehensive Care Veterinary Hospital

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

Pharmacodynamics.

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

Pharmacodynamics.

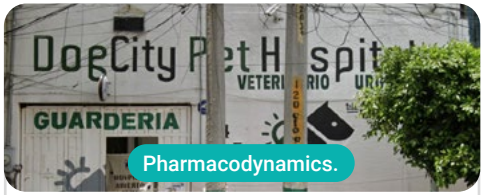
Clínica Veterinaria Luifran

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



Pharmacodynamics.

Dog City Pet Hospital

Country: Mexico
City: Mexico City

Address: Lago Ginebra 145, Pensil Sur, Miguel Hidalgo, CP 11490

The veterinary center specializing in the care of dogs

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

Pharmacodynamics.

Veterinaria Palo Verde

Country: Mexico
City: Mexico City

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

Clinical Veterinary with more than 30 years of experience in care to

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

Hospital Veterinario

Country
Argentina

City
Buenos Aires

Address: Caveri 1343, Cruce Castelar, Moreno

Emergency and specialty veterinary hospital for small domestic and exotic animals.

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

Clínica Veterinaria Don Bosco

Country
Argentina

City
Buenos Aires

Address: Conquista de Desierto 662, Ezeiza, Bs. As

Clinic of general and specific specialties of Veterinary Medicine

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

Veterinaria UCLE

Country
Argentina

City
Cordoba

Address: Maestro Vidal 1600

Veterinary center specialized in hospitalization and emergencies

Related internship programs:
- Veterinary Surgery in Small Animals

Veterinaria SUMMA

Country
Argentina

City
Cordoba

Address: José Roque Funes 1660 cerro de las rosas - Córdoba Capital

High complexity veterinary center and product distribution

Related internship programs:
- Management and Administration of Veterinary Centers
- Veterinary Surgery in Small Animals

Clínica Raza

Country
Colombia

City
Bogotá, Distrito Capital

Address: Av. la esperanza 81-38
Bogotá, Colombia

Center specialized in the care of veterinary clinic

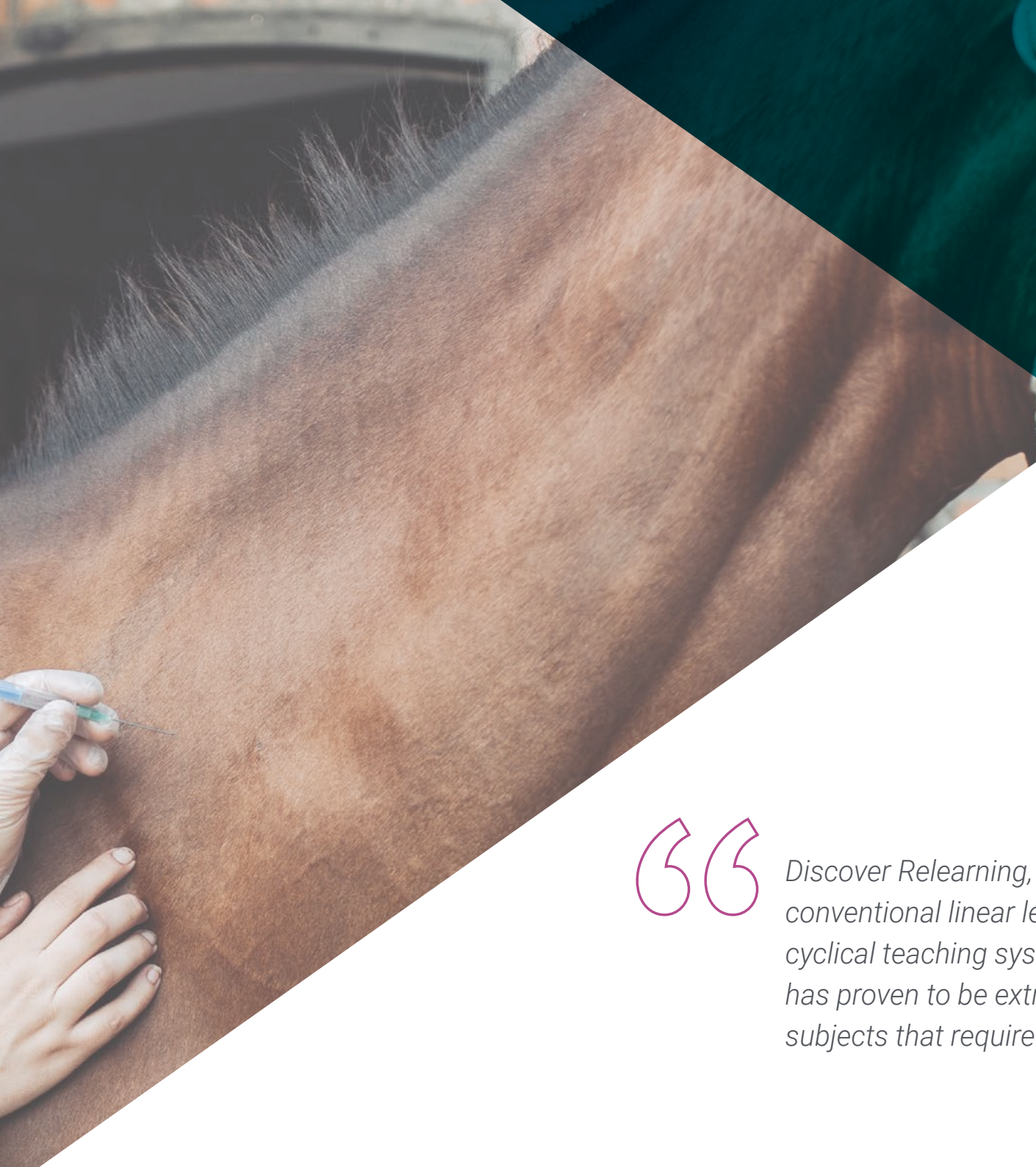
Related internship programs:
- Management and Administration in Veterinary Centers
- Veterinary Surgery in Small Animals

Take advantage of this opportunity to surround yourself with expert professionals and learn from their work methodology"

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.

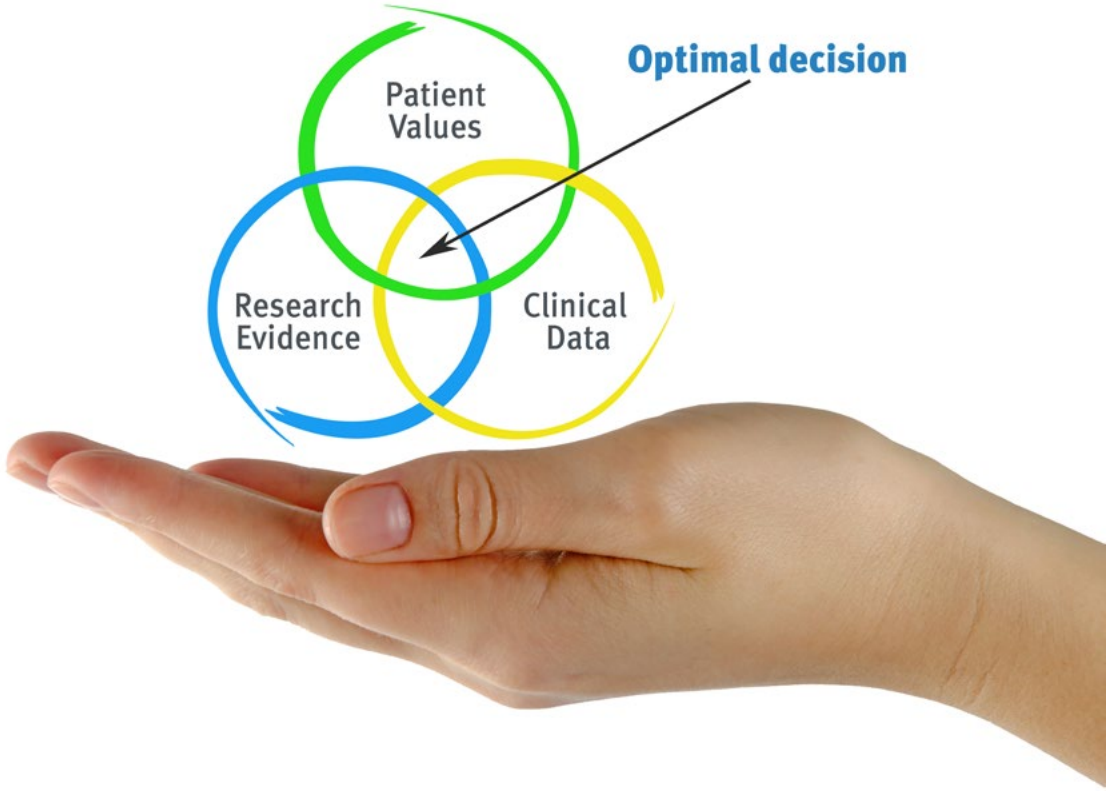


Discover Relearning, a system that abandons conventional linear learning, to take you through cyclical teaching systems: a way of learning that has proven to be extremely effective, especially in subjects that require memorization"

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:

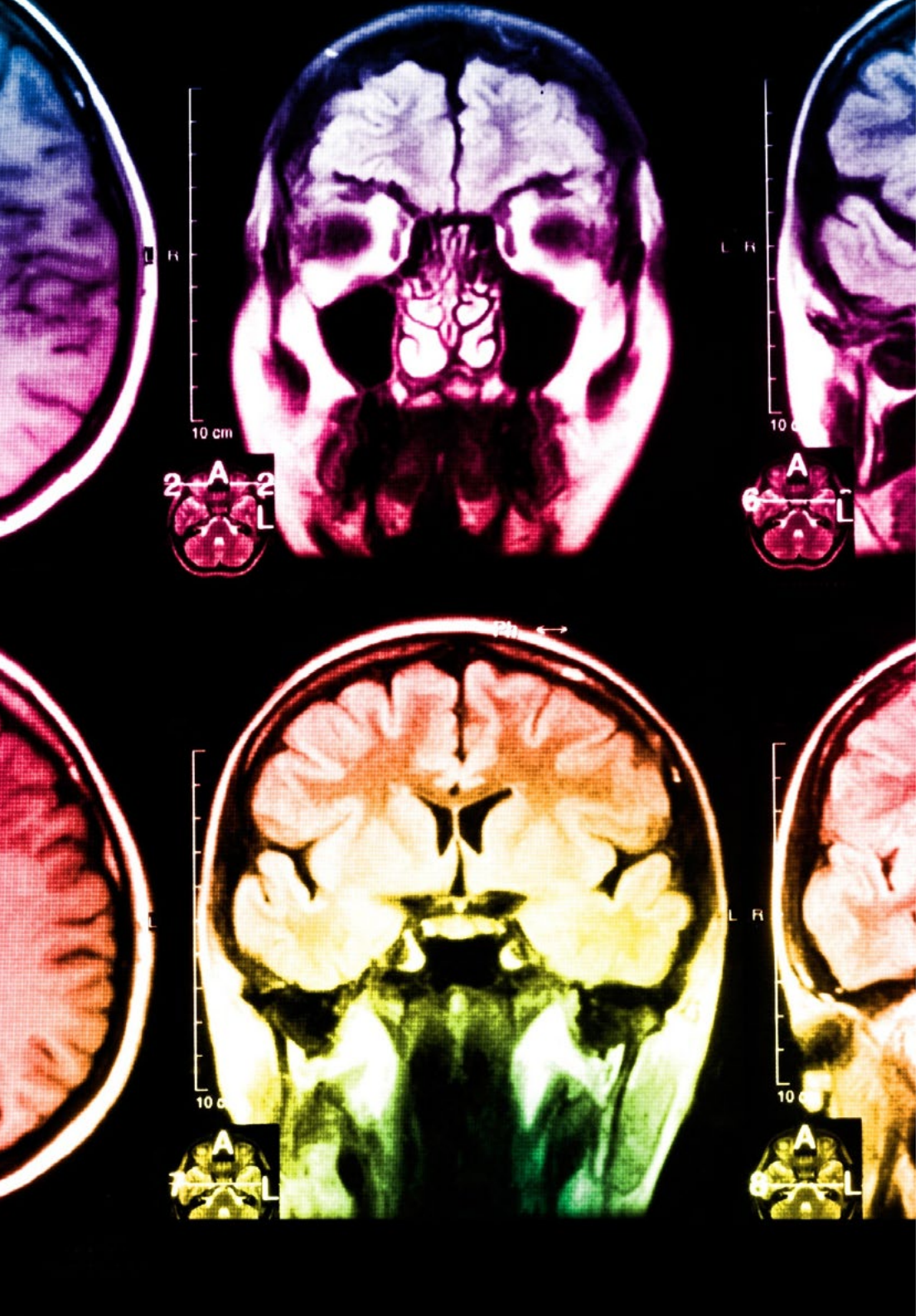
1. Veterinarians who follow this method not only manage to assimilate concepts, but also develop their mental capacity through exercises to evaluate real situations and knowledge application
2. Learning is solidly translated into practical skills that allow the student to better integrate into the real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

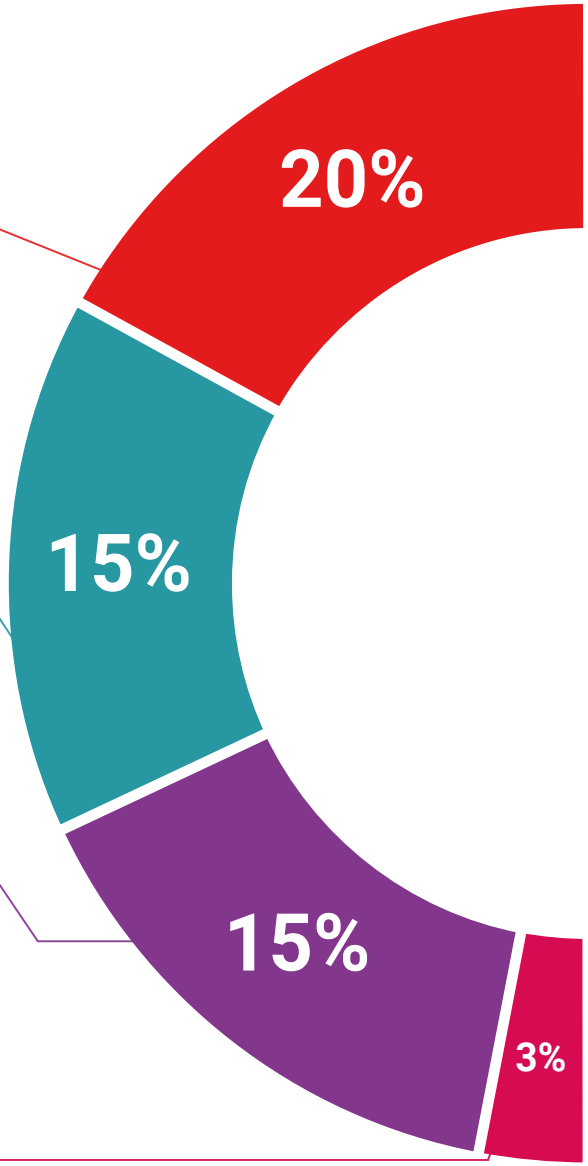
Interactive Summaries

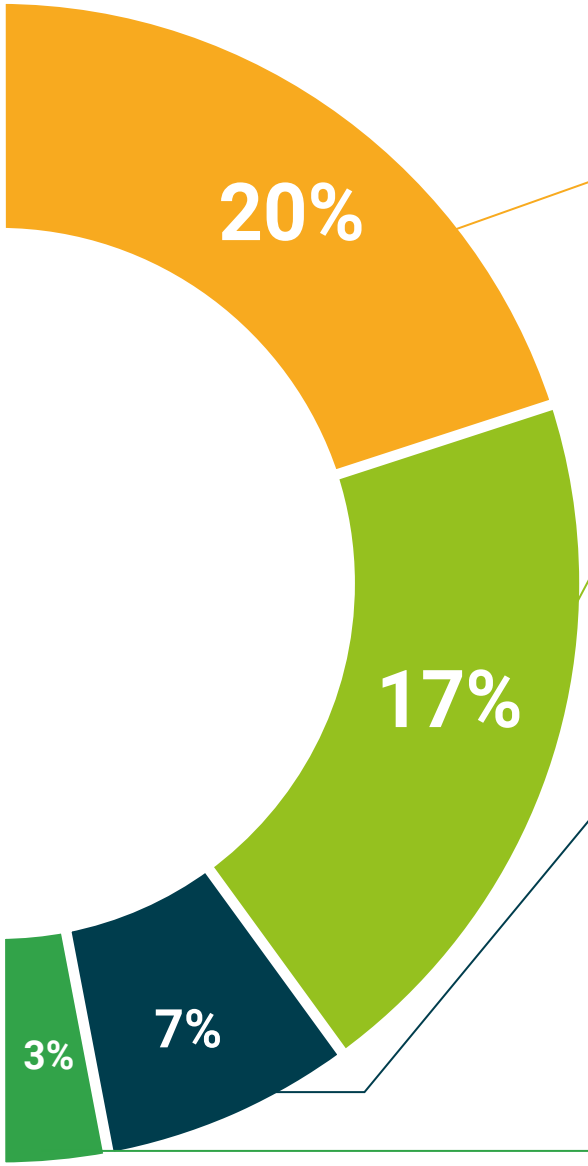
The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

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

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

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

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 Veterinary Surgery in Small Animals**

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

Duration: **12 months**

Certificate: **TECH Technological University**

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

tech technological university

Awards the followi ng

DIPLOMA

to

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

For having successfully passed and accredited the following program

HYBRID PROFESSIONAL MASTER'S DEGREE

in

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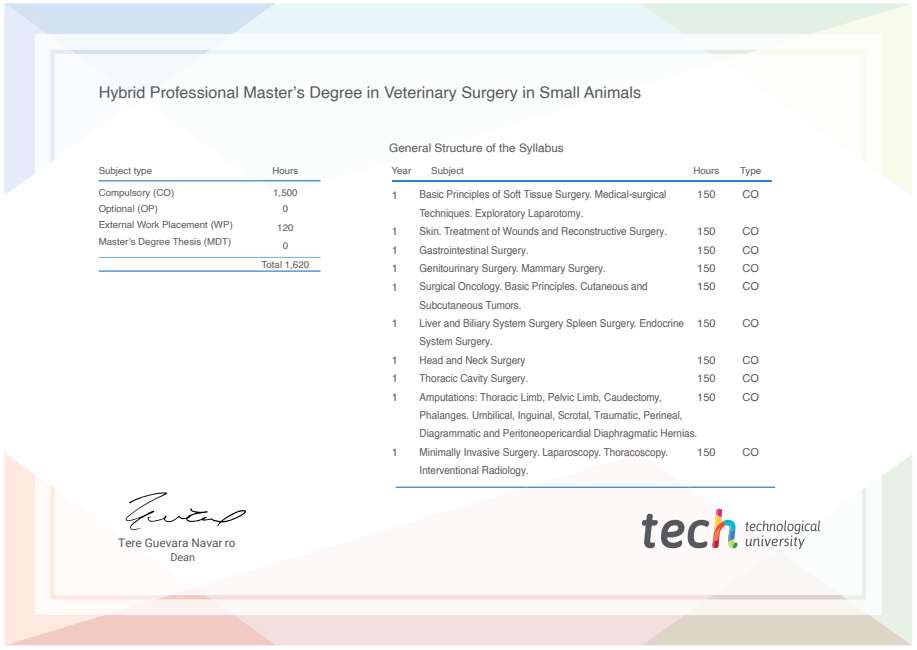
This qualification must always be accompanied by the university degree issued by the competent authority to practice professionally in each country. Unique TECH Code: AFWORD23S techtitute.com/certificates



Hybrid Professional Master's Degree in 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 of Soft Tissue Surgery. Medical-surgical Techniques. Exploratory Laparotomy.	150	CO
1	Skin. Treatment of Wounds and Reconstructive Surgery.	150	CO
1	Gastrointestinal Surgery.	150	CO
1	Genitourinary Surgery. Mammary Surgery.	150	CO
1	Surgical Oncology. Basic Principles. Cutaneous and Subcutaneous Tumors.	150	CO
1	Liver and Biliary System Surgery Spleen Surgery. Endocrine System Surgery.	150	CO
1	Head and Neck Surgery	150	CO
1	Thoracic Cavity Surgery.	150	CO
1	Amputations: Thoracic Limb, Pelvic Limb, Caudectomy, Phalanges. Umbilical, Inguinal, Scrotal, Traumatic, Perineal, Diagrammatic and Peritoneopericardial Diaphragmatic Hernias.	150	CO
1	Minimally Invasive Surgery. Laparoscopy. Thoracoscopy. Interventional Radiology.	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

Veterinary Surgery in Small Animals

Modality: **Hybrid (Online + Clinical Internship)**
Duration: **12 months**
Certificate: **TECH Technological University**
Teaching Hours: **1,620 h.**

Hybrid Professional Master's Degree

Veterinary Surgery in Small Animals

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