

# Hybrid Professional Master's Degree Animal Welfare





## Hybrid Professional Master's Degree Animal Welfare

Course Modality: Hybrid (Online + Clinical Internship)

Duration: 12 months.

Certificate: TECH Technological University

Teaching Hours: 1,620 h.

Website: [www.techtute.com/us/veterinary-medicine/hybrid-professional-master-degree/hybrid-professional-master-degree-animal-welfare](http://www.techtute.com/us/veterinary-medicine/hybrid-professional-master-degree/hybrid-professional-master-degree-animal-welfare)

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# 01

# Introduction

Today's society has become aware of the relationship between humans and animals. Therefore, it demands that they have good physical, emotional and behavioral conditions in their life in captivity. With this in mind, a program focused on animal welfare has been devised, understood as a practice that guarantees the physical, emotional and behavioral safety of these living beings. It is a program that combines theory and practice in a comfortable and accessible multidisciplinary format, ideal for the specialist to get up to date on everything related to etiology and animal ethics throughout 1,620 hours of unparalleled academic experience. Additionally, you will work side by side with professionals specialized in the field to perfect your skills in order to achieve the maximum welfare of the different species.





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*Want to get up to speed in Animal Welfare consulting in a zoo? Enroll in TECH's hybrid learning program to access a new job market"*

The social changes that have occurred in society, linked to the increasingly deep-rooted commitment of people to the environment, has given rise to a growing solid movement of struggle to perpetrate and motivate animal welfare, especially in relation to captive breeding. As a result, governments have worked on legislative reform to create new regulatory frameworks that provide for the ethics that these species deserve. In this area, veterinary professionals play a fundamental role, as they act as analysts of the situation, ensuring that the agreed conditions are met and that, as a result, the animals enjoy a prosperous life in optimal conditions for their correct physical, emotional and behavioral development.

However, this is an area that is undergoing constant change, always in favor of perpetrating increasingly correct laws and actions, so these specialists must be continually updating their knowledge. In view of this, the Hybrid Professional Master's Degree in Animal Welfare arises as a response to the growing demand of society and veterinary professionals to maintain the physical and emotional health of species in captivity or destined for human consumption. Consequently, the aim is to minimize the suffering of these animals in environments that do not correspond to their natural habitat.

Therefore, the 1,500 of online mode hours of the program will begin by examining the basic concepts raised in the discipline, as well as the effect of eustress and distress on the comfort of animals. Next, the concept of "animal ethics" or bioethics will be developed in depth. This field of study is concerned with examining how nonhuman species should be treated. The current legislation for the livestock sector will also be taken into account, examining welfare problems in pigs, cattle and poultry.

At the end of the online modality, the graduate will be able to carry out an internship program of 120 hours in a center of international prestige. They will carry out a series of activities that will reinforce the knowledge acquired in the virtual classroom. In this way, they will improve the skills and abilities that every professional must master to work in zoos, shelters, slaughterhouses or even in the most important international sanctuaries.

This **Hybrid Professional Master's Degree in Animal Welfare** 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 professionals focused on Animal Welfare.
- ◆ 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.
- ◆ Assessment and monitoring of animals in captivity.
- ◆ Presentation of practical workshops on diagnostic and therapeutic techniques in the veterinary patient.
- ◆ An algorithm-based interactive learning system for decision-making in the clinical situations presented throughout the course.
- ◆ 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
- ◆ Additionally, students will be able to carry out a clinical internship in one of the best hospitals in an international level



*Complete your professional experience as a veterinarian by completing a practical internship in a nationally renowned facility"*

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*After the program you will be able to perform inspections of livestock facilities to improve the living conditions of animals with the security of having the most updated knowledge"*

In this proposal for a Professional Master's Degree, of a professionalizing nature and hybrid learning modality, the program is aimed at updating veterinary professionals who develop their functions in Animal Welfare 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 animals in the enclosure.

Thanks to its multimedia content elaborated with the latest educational technology, it will allow the veterinary professional a situated and contextual learning, that is, 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 you will have to try to solve the different situations of professional practice that arise throughout the program. For this purpose, students will be assisted by an innovative, interactive video system created by renowned and experienced experts.

*The experience you will acquire in this program will help you to perfect your professional practice through an extensive and top-level update.*

*It defines all the links involved in the development of animal protection regulations through 1,500 hours of theoretical and additional content of the highest quality.*



# 02

## Why Study this Hybrid Professional Master's Degree?

The concept of "animal welfare" has changed considerably in recent years. In fact, nowadays it is quite present in society, as more and more people are advocating for a respectful and considerate model for those species that are bred in captivity, regardless of their purpose. For this reason, TECH has devised a complete and updated program, perfect for the veterinarian, as a protagonist agent in the fulfillment of these types of issues, to keep up to date with the latest developments in his profession. All this through an unparalleled theoretical and practical experience with which, undoubtedly, will reach the highest level in just 12 months.







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*Are you thinking of orienting your career towards working in animal shelters and want to get up to date in your field? Then opt for this Hybrid Professional Master's Degree"*

### 1. Updating from the latest technology available

This Hybrid Professional Master's Degree will give the graduate access to the most innovative and varied veterinary technology. Therefore, during the 120 hours in which the program is distributed, the graduate will be able to work intensively in the improvement of their skills for their management, delving into the characteristics of each one and knowing in detail and in an updated way the pros and cons of their use in different types of situations.

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

The graduate will have the support of the best professionals specialized in the field of veterinary medicine and specialized in Animal Welfare. In this way, they will be able to use their experience and, therefore, their clinical strategies to update their practice, implementing the most effective and efficient techniques for the clinical management of different species in different contexts.

### 3. Entering First-Class Clinical Environments

Access to this Hybrid Professional Master's Degree will give the graduate the opportunity to participate in various environments related to the field of veterinary medicine. In all of them, they will be able to actively participate in the management of animals, proposing diagnoses and treatments according to the requirements of each species. Additionally, the graduate will participate in the evaluation of the different environments, analyzing whether or not they comply with the conditions related to Animal Welfare.





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

This Hybrid Professional Master's Degree is a unique opportunity to update in depth the graduate's knowledge through a comprehensive approach to issues related to Animal Welfare. It is a program that, through the union of theory and practice, will provide you with all the resources to update your knowledge about Animal Welfare in only 12 months.

#### 5. Expanding the Boundaries of Knowledge

TECH updates every year its agreements with all international destinations that are part of the large catalog of centers in which the graduate will be able to stay. This is in order to guarantee updated experiences of the highest level.

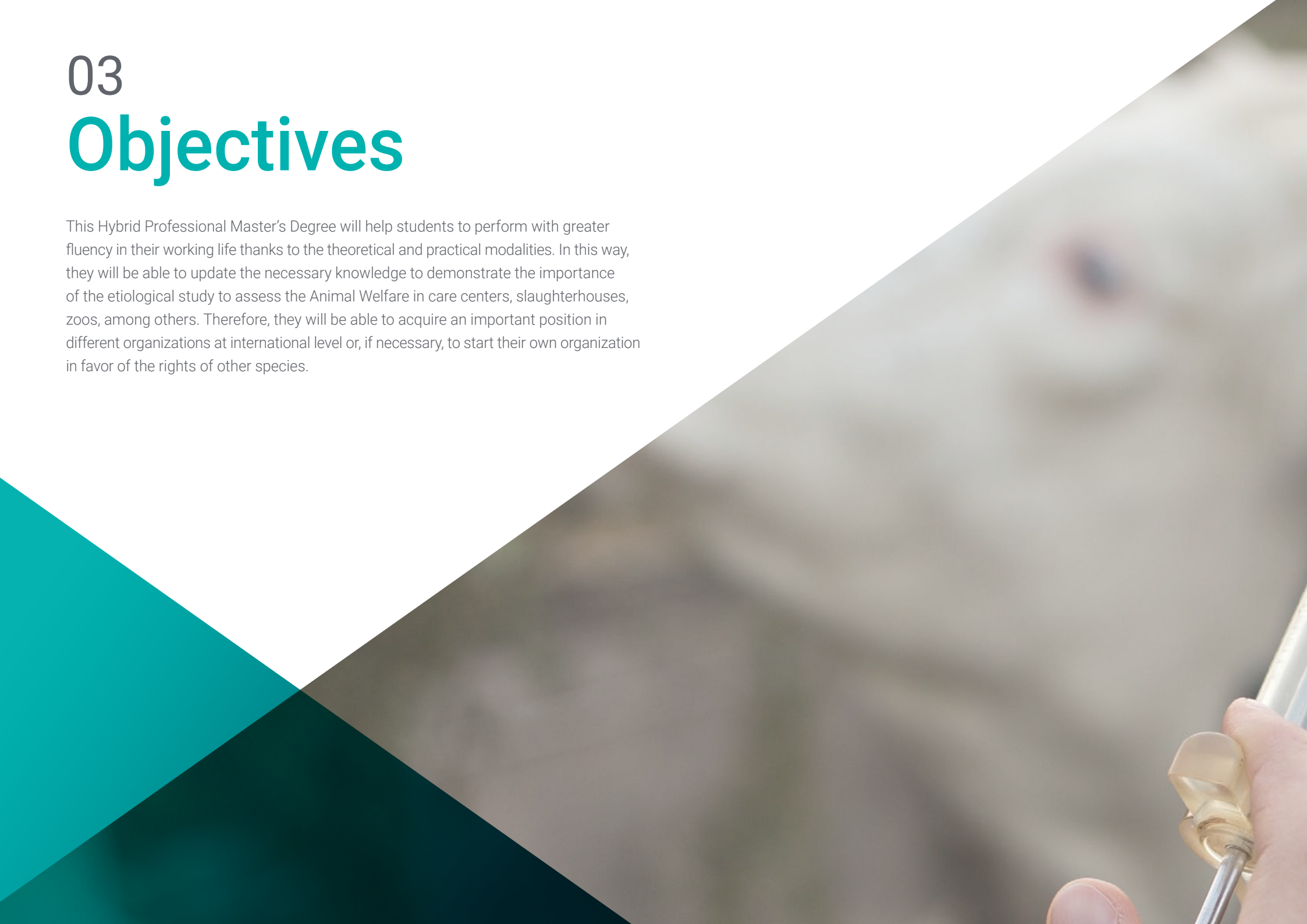
Additionally, new companies located in different countries are added to the list, so that the specialist has more to choose from when it comes to internships.

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

# 03 Objectives

This Hybrid Professional Master's Degree will help students to perform with greater fluency in their working life thanks to the theoretical and practical modalities. In this way, they will be able to update the necessary knowledge to demonstrate the importance of the etiological study to assess the Animal Welfare in care centers, slaughterhouses, zoos, among others. Therefore, they will be able to acquire an important position in different organizations at international level or, if necessary, to start their own organization in favor of the rights of other species.





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*Evaluate the effectiveness of the most innovative stunning systems in order to propose less traumatic options for the animals”*



## General Objective

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- The objective of the proposed Hybrid Professional Master's Degree in Animal Welfare is to provide the graduate with all the knowledge and tools needed to guarantee the comfort and welfare of the different species outside their natural habitat. This will be achieved by carrying out a series of practical activities in a prestigious international center. Additionally, together with the teaching group of the theoretical modality, the update will have a complete, exhaustive and innovative knowledge.



*You will gain experience while developing your potential to become a consultant specialized in Animal Welfare"*





## Specific Objectives

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### Module 1. Animal Welfare. Concepts and Evolution

- ♦ Examine the concept of animal welfare in all its implications
- ♦ Analyze the physiological stress response in animals and its quantification
- ♦ Develop the concepts of stress and acute and chronic stress responses
- ♦ Fundamentalize the concepts of "eustress" and "distress"
- ♦ Determine the animal welfare implications in this stress response
- ♦ Develop the concept of freedoms and needs to understand animal welfare
- ♦ Examine the concept of animal welfare assessment
- ♦ Specify current animal welfare assessment systems

### Module 2. Applied Animal Ethology

- ♦ Develop the concept of applied animal ethology
- ♦ Establish the principles of learning and motivation in animals
- ♦ Identify the role of domestication in the development of current behaviors
- ♦ Demonstrate the importance of the study of ethology in assessing animal welfare
- ♦ Identify normal and abnormal animal behavior patterns
- ♦ Examine enrichment systems in wild and domestic animals and propose enrichment systems on farms or other facilities

### **Module 3. Animal Ethics**

- ♦ Analyze the concept of animal ethics and bioethics in all its branches
- ♦ Provide a foundation for social, personal and professional ethics toward animals
- ♦ Examine the different ethical theories
- ♦ Develop the concept of animal status
- ♦ Identify the moral status that can be given to animals
- ♦ Substantiate animal integrity and hence animal abuse
- ♦ Introduce animal law and the Universal Declaration of Animal Rights
- ♦ Assess the role of human-animal relationships in welfare

### **Module 4. National and International Animal Protection Legislation**

- ♦ Analyze the development of animal protection regulations in the European Union
- ♦ Develop animal protection regulations in livestock farms
- ♦ Detail animal protection regulations in transport and slaughtering
- ♦ Examine animal protection regulations for teaching and research purposes
- ♦ Identify international actors in the development of animal protection legislation
- ♦ Present animal welfare regulations in countries outside the European Union

### **Module 5. Livestock Establishments. Welfare in Swine, Beef Cattle and Poultry**

- ♦ Analyze welfare problems in swine breeding establishments
- ♦ Examine welfare problems in the management of sows and piglets during lactation and rearing
- ♦ Analyze welfare during the fattening of pigs
- ♦ Examine cattle facilities from a welfare standpoint
- ♦ Determine welfare in dairy cattle facilities and during calf fattening
- ♦ Analyze welfare in laying hen establishments and in broiler establishments

### **Module 6. Welfare in Other Species of Interest**

- ♦ Analyze welfare in dairy sheep and goats, and in sheep feedlots
- ♦ Examine equine welfare
- ♦ Address welfare in rabbit farms
- ♦ Acquire specialized knowledge of welfare in alternative poultry production
- ♦ Analyze the welfare of big game species (deer, roe deer, fallow deer, etc.) and small game species (rabbit, hare, partridge, quail, etc.)
- ♦ Analyze the welfare of camelids
- ♦ Examine welfare in companion animals
- ♦ Identify welfare aspects in beekeeping



**Module 7. Welfare in Zoos, Shelters and Other Facilities and Establishments**

- ♦ Define welfare problems in zoos animals
- ♦ Analyze indicators to assess welfare in zoos
- ♦ Assess animal welfare in zoos
- ♦ Examine welfare problems in shelter animals
- ♦ Develop welfare assessment protocols for animal shelters
- ♦ Identify welfare problems in entertainment, animals in research and teaching centers
- ♦ Evaluate welfare assessment protocols for experimental and teaching animals

**Module 8. Animal Welfare in Fish Farming**

- ♦ Define physiological stress response in fish
- ♦ Analyze information on consciousness, pain and fear in fish
- ♦ Develop the most effective indicators to assess welfare in fish
- ♦ Examine measures of water quality and their implications for fish
- ♦ Discuss the main welfare issues in fish farming
- ♦ Establish the best management guidelines for fish to minimize suffering
- ♦ Examine the welfare of fish during capture in both farmed and commercial fisheries
- ♦ Determine the welfare of aquarium fish

**Module 9. Animal Well-being during Transport**

- ♦ Examine the behavior of animals in relation to transportation
- ♦ Establish the environmental and management factors that affect welfare during transportation
- ♦ Identify the correct handling and transportation guidelines for cattle and swine
- ♦ Determine the correct handling and transportation guidelines for poultry
- ♦ Examine the correct handling and transportation guidelines for fish
- ♦ Assess differences in Animal Welfare as a function of means of transportation
- ♦ Present the relation between animal transportation and health and productivity

**Module 10. Animal Welfare during Slaughter**

- ♦ Analyze the principles of consciousness and insensibility in animals
- ♦ Define the potential causes of pain during animal slaughter
- ♦ Specify the most effective stunning systems for each animal species
- ♦ Examine the indicators for correct stunning
- ♦ Identify the main factors that can lead to inadequate stunning
- ♦ Assess the repercussions of stunning systems on carcass and meat quality
- ♦ Provide a foundation for animal euthanasia principles

# 04 Skills

The curriculum of the Hybrid Professional Master's Degree will prepare veterinary professionals to take on new job roles through the improvement of their skills and aptitudes. In this sense, thanks to the theoretical and practical modality, you will acquire the ability to identify the most common problems in centers such as zoos, slaughterhouses, etc., ensuring the safety of animals and their comfort to lead a dignified life.



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*If your goal is to start your own organization for the benefit of animal welfare, this program will give you the keys to achieve it through a complete and extensive update”*



## General Skills

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- Discern the concept of Animal Welfare
- Provide a foundation of knowledge of applied animal ethology
- Generate critical awareness of human responsibility toward animals
- Examine our role in animal welfare

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*A program through which you can work intensively on improving your skills in water quality analysis and fish welfare"*





## Specific Skills

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- ◆ Develop the concepts of stress and acute and chronic stress responses
- ◆ Identify normal and abnormal animal behavior patterns
- ◆ Substantiate animal integrity and hence animal abuse
- ◆ Detail animal protection regulations in transport and slaughtering
- ◆ Examine animal protection regulations for teaching and research purposes
- ◆ Determine welfare in dairy cattle facilities and during calf fattening
- ◆ Examine welfare in companion animals
- ◆ Identify welfare aspects in beekeeping
- ◆ Identify welfare problems in entertainment, research and teaching animals
- ◆ Determine the welfare of aquarium fish
- ◆ Determine the correct handling and transportation guidelines for poultry
- ◆ Identify the main factors that can lead to inadequate stunning

05

# Course Management

The faculty of this program is composed of a select group of veterinary professionals. Furthermore, they have extensive experience in different areas such as agricultural research, fish welfare and animal production. Therefore, they are more than qualified to guide the theoretical modality on this course. This will represent a great opportunity to improve for those professionals who aspire to access new job options.





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*The academic experience that this faculty will provide you with will be unique. Enroll now to start moving up in your professional life"*

## Management



### Dr. De la Fuente Vázquez, Jesús

- ♦ Expert researcher in Animal Feeding
- ♦ Researcher in the Department of Food Technology at the National Institute of Agricultural and Food Research and Technology
- ♦ Co-author of more than 35 research articles published in scientific journals
- ♦ Participation in more than 14 research projects on Animal Welfare
- ♦ Participation in 10 book chapters
- ♦ Collaborating teacher in more than 40 national and international courses on Animal Welfare
- ♦ Teacher in university veterinary studies
- ♦ Collaborator in more than 60 communications to the Veterinary national and international congresses
- ♦ PhD in Veterinary from the Complutense University of Madrid
- ♦ Degree in Veterinary Medicine from the Complutense University of Madrid
- ♦ Master in Swine Sciences Production from the University of Aberdeen



## Professors

### Dr. Pérez Marcos, Concepción

- ◆ Expert Researcher in sheep behavior and management
- ◆ Researcher at the National Institute of Agricultural and Food Research and Technology in the Animal Production Unit
- ◆ Director of 2 R&D projects oriented to Agricultural Resources and Technologies
- ◆ Participant in more than 18 research projects
- ◆ Author and co-author of more than 30 articles published in scientific journals
- ◆ Collaborator in 8 book chapters and complete books
- ◆ Teacher in university veterinary studies
- ◆ Doctorate in Veterinary from the Complutense University of Madrid.
- ◆ Degree in Veterinary Medicine from the Complutense University Madrid

### Dr. González de Chavarri Echaniz, Elisabeth

- ◆ Expert Researcher in Animal Feeding and Welfare
- ◆ Member of several research groups in Animal Feeding and Welfare
- ◆ University assistant in the Department of Animal Production
- ◆ Participant in 12 research projects
- ◆ Co-author of more than 30 research and popular science articles
- ◆ Co-author of 15 book chapters and complete books
- ◆ Associate professor in university veterinary studies
- ◆ Contributor in more than 30 communications to national and international congresses
- ◆ Doctorate in Veterinary from the Complutense University of Madrid.
- ◆ Degree in Veterinary Medicine from the Complutense University Madrid

### Dr. Villarroel Robinson, Morris Ricardo

- ◆ Deputy Vice Chancellor at the Polytechnic University of Madrid
- ◆ Researcher at the Polytechnic University of Madrid
- ◆ Researcher at the Faculty of Veterinary Medicine of the University of Zaragoza
- ◆ Author of several scientific articles related to Animal Welfare published in journals
- ◆ Professor in studies oriented to Agricultural Engineering
- ◆ PhD in Biology from McGill University
- ◆ Degree in Biochemistry from McGill University

### Dr. Díaz Díaz-Chirón, María Teresa

- ◆ Expert Researcher in Animal Nutrition
- ◆ Researcher in the Department of Food Technology at the National Institute of Agricultural and Food Research and Technology
- ◆ Senior Scientist at the National Institute of Agricultural and Food Research and Technology
- ◆ Researcher at the Agrarian Technological Institute of Castilla y León
- ◆ Author of more than 40 articles published in scientific journals
- ◆ Participant in more than 20 research projects on animal feed
- ◆ Collaborating teacher in university veterinary studies
- ◆ Contribution to more than 70 communications in national and international congresses
- ◆ Doctorate in Veterinary from the Complutense University of Madrid.
- ◆ Degree in Veterinary Medicine from the Complutense University Madrid

**Dr. Cabezas Albéniz, Almudena**

- ◆ Researcher specialized in Animal Welfare
- ◆ Advisor in animal nutrition, production and management in different companies of the sector
- ◆ Researcher in more than 10 projects focused on Animal Welfare
- ◆ Co-author of more than 10 scientific publications on animal nutrition
- ◆ Professor in courses and university studies related to the field of veterinary medicine
- ◆ Doctorate in Veterinary from the Complutense University of Madrid.
- ◆ Technical Agricultural Engineer by the Polytechnic University of Madrid
- ◆ Master's Degree in Veterinary Science Research from the Complutense University of Madrid.

**Dr. Arroyo Lambaer, Ana Alejandra**

- ◆ Specialist in Ethology and Animal Welfare
- ◆ Founder of the veterinary consultancy Yolcati
- ◆ Animal Welfare Consultant at Oasis Wildlife
- ◆ Responsible for the Animal Welfare Department at the Psittacus Catalonia Breeding Center
- ◆ Animal trainer and caretaker at Oasis Wildlife
- ◆ Author of popular science material on Animal Welfare
- ◆ Professor in courses related to animal care
- ◆ Speaker in Congresses and Seminars on Ethology and Animal Welfare
- ◆ Degree in Veterinary Medicine and Zootechnics from the National Autonomous University of Mexico



**Dr. García González, Luis**

- ♦ Veterinarian and Technical Health Director in Livestock Farms
- ♦ Director of Veterinary Services of the Serrania, SLU
- ♦ Consultant and Sanitary Technical Director of Cattle Farms of different meat companies
- ♦ Consultant and Sanitary Technical Director of livestock sanitary defense groups and cattle, sheep, goat, pig, poultry and rabbit farms
- ♦ Chief auditor at OCA Global
- ♦ Freelance veterinarian
- ♦ Teacher of courses oriented to Animal Welfare
- ♦ Degree in Veterinary Medicine from the Complutense University of Madrid
- ♦ Certification in Animal Welfare Quality by the General Council of Veterinary Associations of Spain

**Mr. Sancho Arispe, Alex**

- ♦ Science Teacher, Fundació Jesuïtes Educació
- ♦ Founding Partner and Director of the Yura Educational Association
- ♦ Field Researcher at the African Elephant Research Unit in South Africa
- ♦ Animal caretaker at Aqualeón
- ♦ Animal Caretaker at the Torreferrussa Wildlife Recovery Center
- ♦ Degree in Biology, Autonomous University of Barcelona
- ♦ Master's Degree in Terrestrial Ecology from the Autonomous University of Barcelona
- ♦ Master's Degree in Animal Welfare from the Autonomous University of Barcelona

**Dr. Moreno Guiberteau, Ana Isabel**

- ♦ Veterinary Specialist in Grupo Solano
- ♦ Veterinarian in Ibergenetica Extremeña SA
- ♦ Veterinarian at UEX Veterinary Clinic Hospital
- ♦ Veterinarian Specialist Degree in Veterinary Medicine from the University of Extremadura
- ♦ Degree in Veterinary Medicine from the University of Extremadura
- ♦ Master's Degree in Rehabilitation in from UCM
- ♦ Master's Degree in Companion Animal Medicine and Surgery (Equidae and Small Animals) from the Clinical Veterinary Hospital of the University of Extremadura
- ♦ Official Course in Equine Kinesio Taping by the UCM
- ♦ Certification in Animal Welfare Quality
- ♦ Effect of BoarBetter® on Reproductive Parameters of Weaned Sows
- ♦ Specialist in Swine Production and Nutrition



*The teaching team will be at your disposal to answer any questions you may have during the course of the program, through a direct communication tool that you will find in the Virtual Campus"*

# 06

## Educational Plan

The entire content of this Hybrid Professional Master's Degree in Animal Welfare has been planned to meet the needs that a professional in the area should have. Therefore, in the theoretical mode, the student will be able to get up to date on everything related to the evaluation of general and specific concepts of Animal Welfare in different centers, such as zoos, shelters, livestock farms, among others. In this way, they will be able to guarantee the rights of animals in environments that are not their natural habitat, in addition to ensuring compliance with international protocols for their protection.





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*The ideal program to bring you up to date on the factors to be considered in the achievement of Animal Welfare during transport”*

## Module 1. Animal Welfare. Concepts and Evolution

- 1.1. Evolution of the Concept of Animal Welfare, from Antiquity to Present Day
  - 1.1.1. Animal Welfare in Antiquity
  - 1.1.2. Introduction to the Concept of Welfare
  - 1.1.3. Animal Welfare Today
- 1.2. Vision of the Concept of Animal Welfare from Different Cultures
  - 1.2.1. Buddhism
  - 1.2.2. Catholicism
  - 1.2.3. Islam
  - 1.2.4. Judaism
  - 1.2.5. Orthodox Church
  - 1.2.6. Protestantism
- 1.3. Concept of Animal Welfare, Approaches to Understanding It
  - 1.3.1. Definitions of Animal Welfare
  - 1.3.2. Emotion-Based Approach
  - 1.3.3. Function-Based Approach
  - 1.3.4. Ethology-Based Approach
- 1.4. Physiological Responses to Stress
  - 1.4.1. Hypothalamus-Pituitary-Adrenal-Glands Axis
- 1.5. Acute and Chronic Stress Response
  - 1.5.1. Physiological Responses to Chronic Stress
  - 1.5.2. Physiological Responses to Acute Stress
- 1.6. Concept of "Eustress" and "Distress".
  - 1.6.1. Eustress: Optimal Stress
  - 1.6.2. Distress: Negative Stress
- 1.7. The Role of Stress Response in Welfare
- 1.8. Freedoms and Needs
  - 1.8.1. Concept of Freedoms
  - 1.8.2. The Role of Freedoms in Animal Welfare
  - 1.8.3. Concept of Needs

- 1.9. Animal Welfare Assessment Systems
  - 1.9.1. Direct Indicators
  - 1.9.2. Indirect Indicators
- 1.10. Developing Animal Welfare Assessment Protocols
  - 1.10.1. TGI 35 L
  - 1.10.2. WelfareQuality ®
  - 1.10.3. AWIN (Animal WelfareIndicators)

## Module 2. Applied Animal Ethology

- 2.1. Applied Animal Ethology and Its Relation to Animal Welfare
  - 2.1.1. General Information on Ethology
  - 2.1.2. Origin of Applied Ethology
  - 2.1.3. Fields of Applied Ethology
- 2.2. Organization of Behavior
  - 2.2.1. Learning
  - 2.2.2. Motivation
- 2.3. The Effect of Domestication on Animal Behavior
  - 2.3.1. Definition of Domestication
  - 2.3.2. The Environment in Domestication
  - 2.3.3. Domestication and Animal Behavior
- 2.4. Individual Animal Behavior
  - 2.4.1. Feeding
  - 2.4.2. Body Care
  - 2.4.3. Exploration
  - 2.4.4. Reaction Behavior
  - 2.4.5. Rest and Sleep
- 2.5. Social and Reproductive Behavior
  - 2.5.1. General Social Behavior
  - 2.5.2. Association
  - 2.5.3. Social Interactions
  - 2.5.4. Reproductive Capacity

- 2.6. Infant and Parental Behavior
  - 2.6.1. Fetal Behavior and Childbirth
  - 2.6.2. Maternal Behavior
  - 2.6.3. Neonatal and Juvenile Behavior
  - 2.6.4. Play, Practice and Exercise
- 2.7. Applied Ethology in Swine and Poultry
  - 2.7.1. Origin and Domestication of Swine
  - 2.7.2. Swine Signals and Communication
  - 2.7.3. Biological Rhythms in Swine: Diet, Rest, Reproduction
  - 2.7.4. Origin and Domestication of Birds
  - 2.7.5. Signals and Communication in Birds
  - 2.7.6. Biological Rhythms in Birds: Diet, Rest, Reproduction
- 2.8. Applied Ethology in Cattle, Sheep and Goats
  - 2.8.1. Origin and Domestication of Beef Cattle
  - 2.8.2. Signals and Communication in Cattle
  - 2.8.3. Biological Rhythms in Cattle: Diet, Rest, Reproduction
  - 2.8.4. Origin and Domestication of Sheep and Goats
  - 2.8.5. Signals and Communication in Sheep and Goats
  - 2.8.6. Biological Rhythms in Sheep and Goats: Diet, Rest, Reproduction
- 2.9. Applied Ethology in Dogs and Cats
  - 2.9.1. Origin and Domestication of Dogs
  - 2.9.2. Signals and Communication in Dogs
  - 2.9.3. Biological Rhythms in Dogs: Diet, Rest, Reproduction
  - 2.9.4. Origin and Domestication of Cats
  - 2.9.5. Signals and Communication in Cats
  - 2.9.6. Biological Rhythms in Cats: Diet, Rest, Reproduction
- 2.10. Environmental Enrichment
  - 2.10.1. Concept of Environmental Enrichment
  - 2.10.2. Functions of Environmental Enrichment
  - 2.10.3. Types of Environmental Enrichment

### Module 3. Animal Ethics

- 3.1. Concept of Animal Ethics: Bioethics
  - 3.1.1. Concept of Animal Ethics
  - 3.1.2. Principles of Animal Ethics
- 3.2. Social, Personal and Professional Ethics
  - 3.2.1. Ethics and Logic behind Ethics
- 3.3. Ethics and Morals concerning Animals
- 3.4. Ethical Theories
  - 3.4.1. Utilitarianism
  - 3.4.2. Rights Ethics
  - 3.4.3. Contractualism
  - 3.4.4. Aristotelian Approaches
  - 3.4.5. Ethics of Care
  - 3.4.6. Egalitarianism
- 3.5. Debate on the Moral Status of Animals
  - 3.5.1. Value Attached to Animals
  - 3.5.2. Differentiation between Species
- 3.6. Animal Integrity
  - 3.6.1. Animal Integrity and Zoocentric Animal Ethics
  - 3.6.2. Biocentric Animal Integrity and Ethics
  - 3.6.3. Aesthetics and Ethics
- 3.7. Animal Abuse
  - 3.7.1. The Evolution of Animal Treatment
  - 3.7.2. Types of Animal Abuse
  - 3.7.3. Animal Abuse in Society Today
- 3.8. Distress and Happiness in Animals
  - 3.8.1. Quality of Life in Animals
  - 3.8.2. Interpreting Animal Pain
- 3.9. Animal Rights
  - 3.9.1. The Universal Declaration of Animal Rights
- 3.10. Human-Animal Relationships
  - 3.10.1. Qualities of the Human-Animal Relationships
  - 3.10.2. Implications of the Human Animal on the Non-Human Animal

#### Module 4. National and International Animal Protection Legislation

- 4.1. European Union Treaties
  - 4.1.1. Prior to the Treaty of Lisbon
  - 4.1.2. The Treaty of Lisbon
- 4.2. The European Parliament, Its Role in Animal Protection
  - 4.2.1. The European Parliament, First Stage prior to 1986
  - 4.2.2. Second Stage of Animal Welfare in the European Parliament
  - 4.2.3. European Parliament and Animal Welfare Today
- 4.3. The European Council: Origin of Legislation in the European Union
  - 4.3.1. The European Council
  - 4.3.2. The Role of the European Council on Animal Welfare
- 4.4. Legislation on Animal Protection on Livestock Farms
  - 4.4.1. Animal Protection for All Livestock Farms
  - 4.4.2. Animal Protection for Laying Hens
  - 4.4.3. Animal Protection for Calves
  - 4.4.4. Animal Protection for Swine
  - 4.4.5. Animal Protection for Broilers
  - 4.4.6. Protection of Other Agricultural Species
- 4.5. Legislation on Animal Protection during Transportation
  - 4.5.1. Legislation on Animal Protection during Transportation
  - 4.5.2. Council Regulation (EC) 1/2005, 22 December 2004 on the Protection of Animals during Transportation and Related Operations
- 4.6. Legislation on Animal Protection on Livestock Farms
  - 4.6.1. Legislation on Animal Protection during Slaughter
  - 4.6.2. Council Regulation (EC) 1099/2009, 24 September 2009, on the Protection of Animals during Slaughter
- 4.7. Legislation on the Protection of Experimental Animals
  - 4.7.1. European Parliament and Council 2010/63/EU Directive, 22 September 2010, on the Protection of Animals used for Scientific Purposes
  - 4.7.2. Royal Decree 53/2013, February 1, Establishing the Basic Rules Applicable for the Protection of Animals used for Experimental and Other Scientific Purposes, including Teaching
  - 4.7.3. Royal Decree 1386/2018, November 19, Amending Royal Decree 53/2013, February 1, Establishing the Basic Rules Applicable for the Protection of Animals used in Experimentation and Other Scientific Purposes, including Teaching







- 4.8. Legislation on the Protection of Animals used for Other Purposes
- 4.9. The Role of International Agencies in Animal Welfare
  - 4.9.1. The Role of the Organization for Economic Co-Operation and Development (OECD)
  - 4.9.2. The Role of Food and Agriculture Organization of the United Nations (FAO)
  - 4.9.3. The Role of the World Organization for Animal Health (WOAH)
- 4.10. Animal Protection in Countries outside the European Union: North America, South America, Africa, Asia and Oceania
  - 4.10.1. Animal Protection Regulations in the Americas
  - 4.10.2. Animal Protection Regulations in Africa
  - 4.10.3. Animal Protection Regulations in Asia
  - 4.10.4. Animal Protection Regulations in Oceania

### **Module 5. Livestock Establishments. Welfare in Swine, Beef Cattle and Poultry**

- 5.1. Welfare in Swine Establishments: Facilities and Equipment
  - 5.1.1. Accommodation
  - 5.1.2. Environmental Needs
  - 5.1.3. Management
- 5.2. Breeding Swine Welfare
  - 5.2.1. Breeding Sow Welfare
  - 5.2.2. Boar Welfare
- 5.3. Welfare in Swine Breeding
  - 5.3.1. Nursing
  - 5.3.2. Transition
- 5.4. Welfare in Fattening Pigs
  - 5.4.1. Accommodation and Facilities
  - 5.4.2. Management
- 5.5. Welfare in Beef Cattle Establishments: Facilities and Equipment
  - 5.5.1. Accommodation
  - 5.5.2. Environmental Needs
  - 5.5.3. Management
- 5.6. Dairy Cow Welfare
  - 5.6.1. *Cowcomfort*

- 5.7. Calf Welfare
  - 5.7.1. Accommodation and Facilities
  - 5.7.2. Management
- 5.8. Welfare in Poultry Establishments: Facilities and Equipment
  - 5.8.1. Accommodation
  - 5.8.2. Environmental Needs
  - 5.8.3. Management
- 5.9. Laying Hen Welfare
  - 5.9.1. Alternative Egg Production Systems
- 5.10. Welfare in Broiler Fattening
  - 5.10.1. Accommodation and Facilities
  - 5.10.2. Management

## Module 6. Welfare in Other Species of Interest

- 6.1. Welfare in Dairy Sheep and Goats
  - 6.1.1. Accommodation
  - 6.1.2. Environmental Needs
  - 6.1.3. Management
- 6.2. Sheep Feedlot Welfare
  - 6.2.1. Accommodation
  - 6.2.2. Environmental Needs
  - 6.2.3. Management
- 6.3. Welfare in Equine Livestock
  - 6.3.1. Accommodation
  - 6.3.2. Environmental Needs
  - 6.3.3. Management
- 6.4. Welfare in Rabbit Farms
  - 6.4.1. Accommodation
  - 6.4.2. Environmental Needs
  - 6.4.3. Management
- 6.5. Welfare in Alternative Poultry Production
  - 6.5.1. Accommodation
  - 6.5.2. Environmental Needs
  - 6.5.3. Management

- 6.6. Welfare of Game Species
  - 6.6.1. Accommodation
  - 6.6.2. Environmental Needs
  - 6.6.3. Management
- 6.7. Camelid Welfare (Llamas, Alpacas, Vicunas and Guanacos)
  - 6.7.1. Accommodation
  - 6.7.2. Environmental Needs
  - 6.7.3. Management
- 6.8. Welfare in Companion Animals: Dogs and Cats
  - 6.8.1. Accommodation
  - 6.8.2. Responsible Animal Ownership
  - 6.8.3. Welfare Problems
- 6.9. Welfare in Other Companion Animals
  - 6.9.1. Accommodation
  - 6.9.2. Responsible Animal Ownership
  - 6.9.3. Welfare Problems
- 6.10. Welfare in Beekeeping
  - 6.10.1. The Importance of Bees as a Superorganism
  - 6.10.2. The Environment
  - 6.10.3. Feeding and Management

## Module 7. Welfare in Zoos, Shelters and Other Facilities and Establishments

- 7.1. Welfare in Parks Zoos
  - 7.1.1. Functions of Zoos
  - 7.1.2. Physical and Emotional Health in Zoo Animals
  - 7.1.3. Fear Response
- 7.2. Wild Animal Response to Captivity
  - 7.2.1. Accommodation
  - 7.2.2. Behavior and Welfare
  - 7.2.3. Species-Specific Response to Captivity
- 7.3. Welfare Indicators in Zoos
  - 7.3.1. Behavioral Indicators
  - 7.3.2. Animal-Related Indicators

- 7.4. Welfare Problems in Zoo Animals
  - 7.4.1. Dietary Problems
  - 7.4.2. Thermal Stress
  - 7.4.3. Space Restrictions
  - 7.4.4. Social Stress
- 7.5. Animal Welfare in Animal Shelters
  - 7.5.1. Accommodation, Care and Environment
- 7.6. Problems in Animal Shelters
  - 7.6.1. Animal Collection
  - 7.6.2. Grouping and Sheltering
- 7.7. Animal Welfare in Shows
  - 7.7.1. Fighting Bulls
  - 7.7.2. Circus Animals
  - 7.7.3. Dolphins
- 7.8. Animal Welfare in Commercial Animal Establishments
  - 7.8.1. Accommodation, Care and Environment
- 7.9. Welfare in Research and Teaching Establishments
  - 7.9.1. Housing, Care and Environmental Factors
  - 7.9.2. Nutrition and Welfare
- 7.10. Welfare Problems in Research and Teaching Animals
  - 7.10.1. Experimental Procedures: General Principles and Recommendations
  - 7.10.2. Infections in Laboratory Animals: Significance and Control

## Module 8. Animal Welfare in Fish Farming

- 8.1. Physiological Stress Response in Fish
  - 8.1.1. Stress Response in Fish
  - 8.1.2. Detecting and Measuring Stress Response
  - 8.1.3. Cortisol as a Stress Index
- 8.2. Consciousness in Fish
  - 8.2.1. Fish Are Capable of Suffering
  - 8.2.2. Basic Brain Organization of Teleost Fish
  - 8.2.3. Cognitive Capacity and Behavior Modification
- 8.3. Pain and Fear in Fish
  - 8.3.1. Sensitivity and Consciousness
  - 8.3.2. Pain
  - 8.3.3. Fear
- 8.4. Fish Welfare Indicators
  - 8.4.1. Based on the Group
  - 8.4.2. Based on the Individual
- 8.5. Water Quality and Fish Welfare
  - 8.5.1. Dissolved Oxygen
  - 8.5.2. Ammonia, Nitrates, Nitrites
  - 8.5.3. Carbon Dioxide, Gas Oversaturation
  - 8.5.4. Suspended Solids, Heavy Metals
  - 8.5.5. Acidity, Alkalinity, Hardness, Temperature, Conductivity
  - 8.5.6. Water Flow
- 8.6. Fish Welfare under Different Production Systems
  - 8.6.1. Pond Aquaculture
  - 8.6.2. Continuous Flow Systems
  - 8.6.3. Semi-Closed Water Circuit Systems
  - 8.6.4. Water Recirculation Systems
  - 8.6.5. Net Cages
  - 8.6.6. Offshore Culture Systems using Sea Cages
- 8.7. Fish Management and Welfare Implications
- 8.8. Fish Welfare Problems due to Animal Density
  - 8.8.1. Animal Density in Cages
  - 8.8.2. Animal Density in Tanks, Ponds and Raceways
  - 8.8.3. Animal Density and Behavior
  - 8.8.4. Relation between Animal Density and Welfare
- 8.9. Welfare in Commercial Fishery Capture and Fish Farming
  - 8.9.1. Stressors during Capture
  - 8.9.2. Commercial Catching Methods: Trawling, Seining, Trammel Nets and Pots
  - 8.9.3. Preparing for Capture, Crowding and Harvesting of Fish in Fish Farming

- 8.10. Aquarium Fish Welfare
  - 8.10.1. General Considerations
  - 8.10.2. Breeding and Capture
  - 8.10.3. Destination Arrival
  - 8.10.4. Feeding
  - 8.10.5. Health

## Module 9. Animal Well-being during Transport

- 9.1. Animal Behavior during Handling and Transportation
  - 9.1.1. Animal Handling
  - 9.1.2. Behavioral Features in Animals
  - 9.1.3. Fear Response and Interaction with the Environment
- 9.2. Animal Transportation by Road: Vehicles and Drivers
  - 9.2.1. Features of Road Transportation Vehicles
  - 9.2.2. Driver Aptitude in Animal Transportation
- 9.3. Environmental Factors involved in Welfare during Transportation
  - 9.3.1. Temperature
  - 9.3.2. Humidity
  - 9.3.3. Ventilation
- 9.4. Handling Factors Involved in Welfare during Transportation
  - 9.4.1. Loading and Unloading
  - 9.4.2. Social Mixing
  - 9.4.3. Fasting
- 9.5. Transportation and Handling in Swine and Beef Cattle
  - 9.5.1. Temperature in Swine Transportation
  - 9.5.2. Loading Density, Diet and Microclimate in Swine Transportation
  - 9.5.3. Cattle Behavior in Moving Vehicles
  - 9.5.4. Loading Density and Diet in Cattle Transportation
- 9.6. Poultry Transportation and Handling
  - 9.6.1. Loading and Unloading Poultry
  - 9.6.2. Heat Stress: Energy Balance, Hunger, Thirst and Fatigue
  - 9.6.3. Behavioral Responses: Fear, Aversion

- 9.7. Fish Transportation and Handling
  - 9.7.1. Transportation Systems
  - 9.7.2. The Impact of Transportation on Fish Welfare
  - 9.7.3. Minimizing the Impact of Transportation on Welfare
- 9.8. Transportation and Handling in Other Species
  - 9.8.1. Horse Transportation
  - 9.8.2. Sheep Transportation
  - 9.8.3. Rabbit Transportation
  - 9.8.4. Dog Transportation
  - 9.8.5. Wildlife Transportation
- 9.9. Animal Welfare in Rail, Air and Ship Transportation
  - 9.9.1. Animal Transportation by Rail
  - 9.9.2. Animal Transportation by Aircraft
  - 9.9.3. Animal Transportation by Ship
- 9.10. Impact of Transportation on Animals: Health and Productivity
  - 9.10.1. Consequences of Transportation and Handling on Health
  - 9.10.2. Consequences of Transportation and Handling on Carcass and Meat Quality

## Module 10. Animal Welfare during Slaughter

- 10.1. Scientific Basis of Consciousness and Being Stunned
  - 10.1.1. Neural Basis of Consciousness
  - 10.1.2. Behavior and Physical Reflexes
  - 10.1.3. Criteria for Stunning and Stunning/Sacrifice Methods
- 10.2. Potential Causes of Pain during Slaughter
  - 10.2.1. Pain Caused by Cutting Off Bleeding
  - 10.2.2. Loss of Consciousness Time
  - 10.2.3. Consequences of Cutting Off Animal Responsiveness
- 10.3. Neurophysiological Basis of Stunning and Stunning/Sacrifice Methods
  - 10.3.1. Mechanical Method
  - 10.3.2. Electrical Method
  - 10.3.3. Gas-Mixture Method



- 10.4. Stunning and Stunning/Slaughtering Systems used in Slaughterhouses
  - 10.4.1. Mechanical Stunning Equipment
  - 10.4.2. Electrical Stunning Equipment
  - 10.4.3. Gas-Mixture Stunning Equipment
- 10.5. Welfare in the Slaughter of Cattle, Sheep, Goats and Horses
  - 10.5.1. Stunning or Stunning/Slaughtering Methods Employed
  - 10.5.2. Assessing Effectiveness of Use
  - 10.5.3. Advantages and Disadvantages of Such Methods
- 10.6. Welfare in Swine Slaughter
  - 10.6.1. Stunning or Stunning/Slaughtering Methods Employed
  - 10.6.2. Assessing Effectiveness of Use
  - 10.6.3. Advantages and Disadvantages of Such Methods
- 10.7. Welfare in Poultry Slaughter
  - 10.7.1. Stunning or Stunning/Slaughtering Methods Employed
  - 10.7.2. Assessing Effectiveness of Use
  - 10.7.3. Advantages and Disadvantages of Such Methods
- 10.8. Welfare in Fish Slaughter
  - 10.8.1. Stunning or Stunning/Slaughtering Methods Employed
  - 10.8.2. Assessing Effectiveness of Use
  - 10.8.3. Advantages and Disadvantages of Such Methods
- 10.9. Impact of Stunning or Stunning/Slaughtering Methods on Carcass and Meat Quality
  - 10.9.1. Impact on Carcass Quality
  - 10.9.2. Impact on Meat Quality: Pale, Soft, Exudative and Dark Cut Meats
- 10.10. Euthanasia in Production, Companion and Research Animals
  - 10.10.1. Euthanasia Techniques
  - 10.10.2. Euthanasia Agents

07

# Clinical Internship

Upon completion of the online period, the student will be ready to take the practical modality in a center of international prestige. During 3 weeks they will be able to attend real cases of animals that require attention and evaluation, guaranteeing their rights and physical and emotional well-being.





“

*The theoretical and practical program of this program will motivate you to develop an organization for the benefit of animal rights"*

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 which are oriented to the specific training for the exercise of the activity, in an environment of safety and high professional performance.

The practical teaching will be carried out with the active participation of the student performing the activities and procedures of each area of skill (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 skills for the veterinary praxis (learning to be and learning to relate).

All this during 3 weeks in which the graduate will have access to the clinic from Monday to Friday in 8-hour days and accompanied by a veterinary professional of the highest level. In this way, they will be able to immerse themselves considerably in each case, making use of the experience of their specialized tutor to get the most out of this opportunity that TECH offers them to update themselves in the best way.

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
<b>Animal welfare and ethics in the conservation of different species</b>	Analyze the physiological stress response of different species
	Work on the evaluation of chronic and acute stress response
	Analyze "Eustress" and "Distress"
	Carry out a freedom and needs assessment
	Evaluate animal welfare assessment systems
	Understand animal welfare assessment protocols
	Deepen the assessment of social, personal and professional ethics
	Understand animal ethics and morality in detail
	Understand in detail the different examinations of distress and happiness in animals
	Analyze the welfare of companion animals Dogs and Cats
	Delve into the best systems for housing evaluation
	Conduct responsible animal husbandry screening
	Develop various welfare problem examinations
<b>Applied Animal Ethology</b>	Analyze applied animal ethology and its relationship with animal welfare
	Delve into the Assessment of Behaviour Organization
	Work on the evaluation of the effect of domestication on animal behavior
	Analyze the Individual Animal Behavior
	Work on updates related to social and reproductive behavior
	Develop an examination of infantile and parental behavior
	Analyze applied ethology in dogs and cats
	Evaluate environmental enrichment

Module	Practical Activity
<b>Animal protection legislation and maintenance of facilities and establishments</b>	Evaluate animal welfare legislation in general
	Analyze welfare in pet boarding facilities
	Analyze the functions in pet boarding facilities
	Develop a physical and emotional health examination of animals in pet boarding homes
	Implement an examination of welfare indicators in pet boarding kennels
	Assess wellness problems in pet boarding facilities
	Examine food-related problems
<b>Guarantees in the transportation of animals</b>	Develop tests of animal behavior during handling and transportation
	Evaluate factors involved in welfare during transportation
	Evaluate the impact of transportation on the animal



*TECH offers you a unique opportunity to access a wide range of activities with which you will undoubtedly reach your professional zenith through extensive practice"*

## 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 Internship Program 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 program agreement shall be 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?

Always seeking excellence, TECH has arranged to broaden the academic and work horizons of students through a practical stay in an animal facility of international prestige. This is a unique opportunity for the student to continue growing in their area of work, alongside the best veterinary specialists in the sector.





“

*You will be able to learn in 3 weeks what many take years to learn. Sign up for the program and you will be able to do it in a prestigious center”*

## tech 46 | Where Can I Do the Clinical Internship?



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



### Asociación Teanima

Country	City
Spain	Madrid

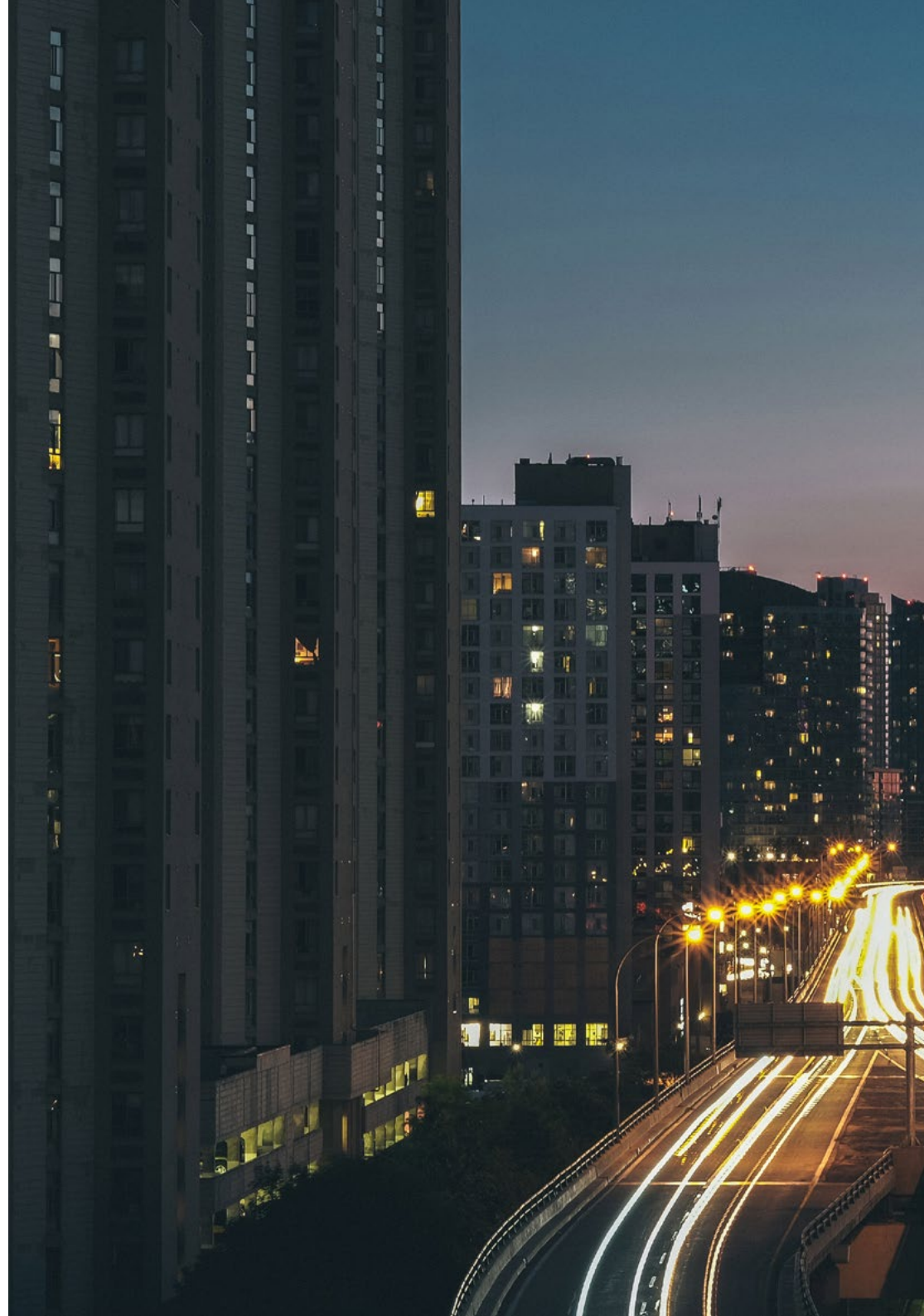
Management: Autovía del Suroeste, km 10,600,  
28925 Venta la Rubia, Madrid

Non-profit organization for the promotion of health through  
animal therapy

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#### Related internship programs:

- Animal Welfare
- Animal-Assisted Therapies





Pharmacodynamics.

### Vive Pet Resort

Country	City
Spain	Madrid

Management:  
Carretera el Escorial, 19, 28232  
Las Rozas de Madrid

-Animal Boarding Facilities

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**Related internship programs:**  
-Animal Welfare



Pharmacodynamics.

### Safari Madrid

Country	City
Spain	Madrid

Management: Carretera Navalcarnero-Cadalso de los  
Vidrios, km 22, 28620 Aldea del Fresno, Madrid

Animal preservation and conservation center

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**Related internship programs:**  
-Animal Welfare



Pharmacodynamics.

### Zoológico El Bosque

Country	City
Spain	Asturias

Management: Los Molinos, 19, 33195 San  
Esteban de las Cruces, Asturias

Zoo specialized in rescue  
and recovery of exotic species

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**Related internship programs:**  
-Animal Welfare  
-Veterinary Nutrition



Pharmacodynamics.

### SAVET Sanatorio Veterinario

Country	City
Argentina	Río Negro

Management: Santa Cruz 1515 General Roca,  
Río Negro

Veterinary clinic with supplies and materials  
of the latest generation

**Related internship programs:**

- Veterinary Anesthesiology
- Veterinary Emergencies in Small Animals



Pharmacodynamics.

### Clínica Veterinaria Don Bosco

Country	City
Argentina	Buenos Aires

Management: 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







Pharmacodynamics.

### Veterinaria Palo Verde

Country	City
Mexico	Mexico City

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

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

**Related internship programs:**

- Internal Medicine in Small Animals
- Animal Welfare



*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. Gervas, 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.*

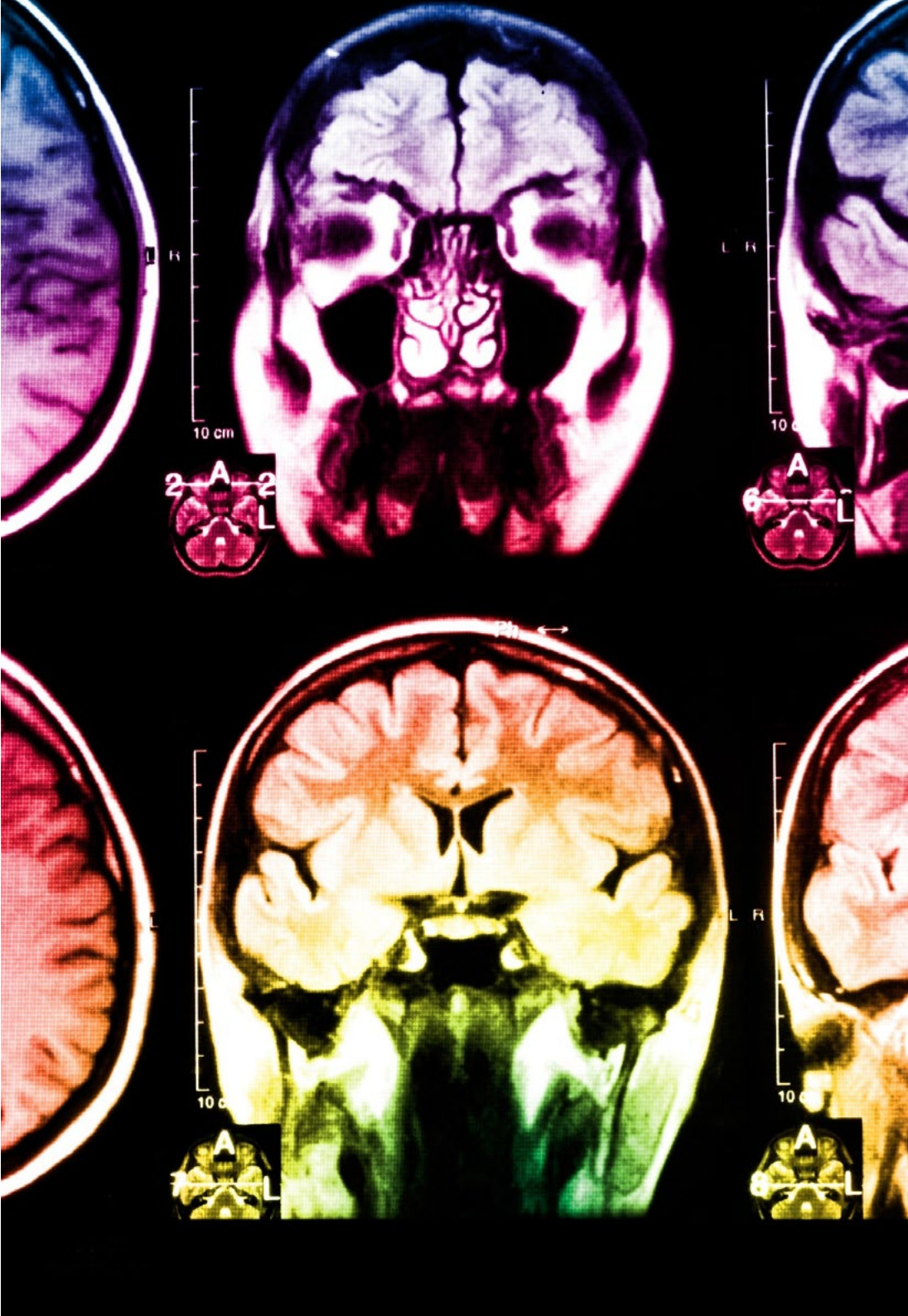
At the forefront of world teaching, the Relearning method has managed to improve the overall satisfaction levels of professionals who complete their studies, with respect to the quality indicators of the best online university (Columbia University).

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

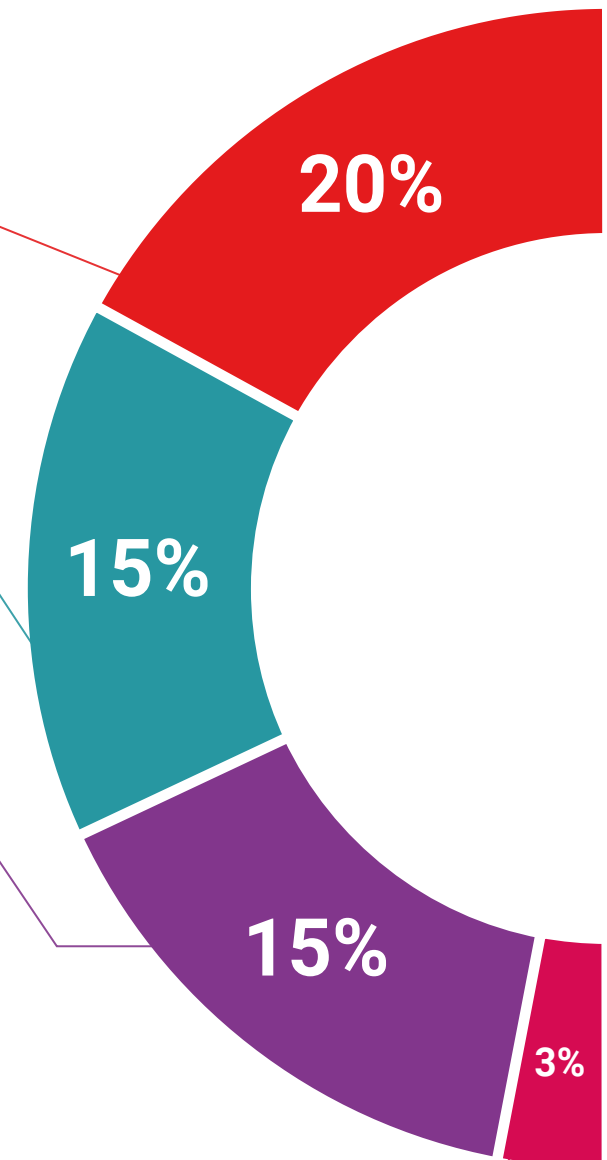
The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

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 Animal Welfare guarantees, in addition to the most rigorous and updated training access to a 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 in Animal Welfare** contains the most complete and updated program in the professional and academic panorama.

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

The diploma issued by TECH Technological University will reflect the qualification obtained in the Hybrid Professional Master's Degree and meets the requirements commonly demanded by labor exchanges, competitive examinations, and professional career evaluation committees.

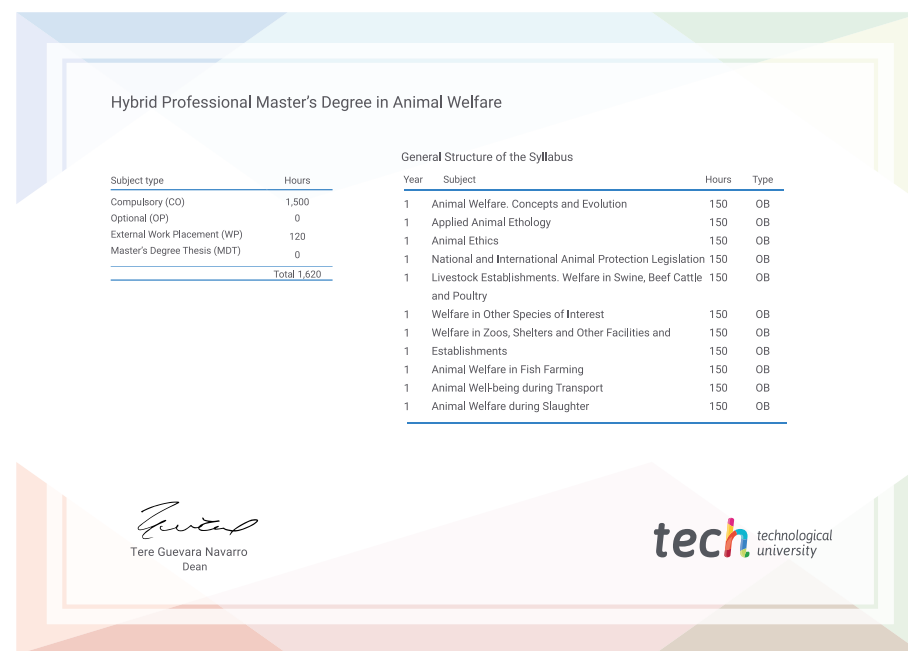
Title: **Hybrid Professional Master's Degree in Animal Welfare**

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

Duration: **12 months.**

Certificate: **TECH Technological University**

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



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

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



## Hybrid Professional Master's Degree

Animal Welfare

Course Modality: Hybrid (Online + Clinical Internship)

Duration: 12 months.

Certificate: TECH Technological University

Teaching Hours: 1,620 h.

# Hybrid Professional Master's Degree Animal Welfare

