

# Postgraduate Certificate Arthroscopy



## Postgraduate Certificate Arthroscopy

Course Modality: **Online**

Duration: **6 weeks**

Certificate: **TECH - Technological University**

**6 ECTS Credits**

Teaching Hours: **150 hours.**

Website: [www.techtute.com/us/veterinary/postgraduate-certificate/arthroscopy](http://www.techtute.com/us/veterinary/postgraduate-certificate/arthroscopy)

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# 01

# Introduction

Arthroscopy has been boosted by the great technological advances at the end of the 20th century with the use of fiber optics instead of glass and mini-cameras with color separation for better intra-articular vision. This makes it essential for veterinary professionals to specialize in this area.



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*Arthroscopy is a technique that has improved in recent years thanks to technological advances. Join our team of students and specialize in this field.”*

The teaching team of this Postgraduate certificate in Arthroscopy has made a careful selection of the different state-of-the-art techniques for experienced professionals working in the veterinary field.

Thanks to Arthroscopy, the joints rarely have to be opened, the pain is much less and the patient can walk for a few hours after the treatment, achieving a much greater improvement. Thus, although Arthroscopy requires a significant investment and continuous training, its use has spread throughout the world making it a common practice in veterinary hospitals.

Developmental joint diseases, such as OCD (Osteochondritis Dissecans), elbow dysplasia or meniscus damage due to cranial cruciate ligament rupture, are regularly treated with the support of Arthroscopy, achieving early improvement, hence the importance of specialization in this area.

This program describes the Arthroscopy techniques of the different joints, the adequate preparation of the patient for each technique, the handling of the specific instruments, the surgical treatment of the intra-articular structures, as well as the periarticular structures assisted by Arthroscopy.

The teachers in this training are university professors with between 10 and 50 years of classroom and hospital experience. They are professors from schools on different continents, with different ways of doing surgery and with world-renowned surgical techniques. This makes this program a unique specialization program, different from any other that may be offered at this moment in the rest of the universities.

Being an online program, the student is not constrained by fixed schedules or the need to move to another physical location, but can access the contents at any time of the day, balancing their work or personal life with their academic life as they wish.

This **Postgraduate Certificate in Arthroscopy** contains the most complete and up to date educational program on the market. The most important features of the program include:

- ♦ The development of case studies presented by experts in veterinary food safety.
- ♦ The graphic, schematic, and eminently practical contents with which they are created, provide scientific and practical information on the disciplines that are essential for professional practice.
- ♦ News about Arthroscopy
- ♦ Practical exercises where self-assessment can be used to improve learning.
- ♦ Special focus on innovative methodologies in Arthroscopy
- ♦ 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



*This is the perfect opportunity to advance your career and give the best treatment to your patients."*

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*This program is the best investment you can make in selecting a refresher program to update your knowledge in Arthroscopy.”*

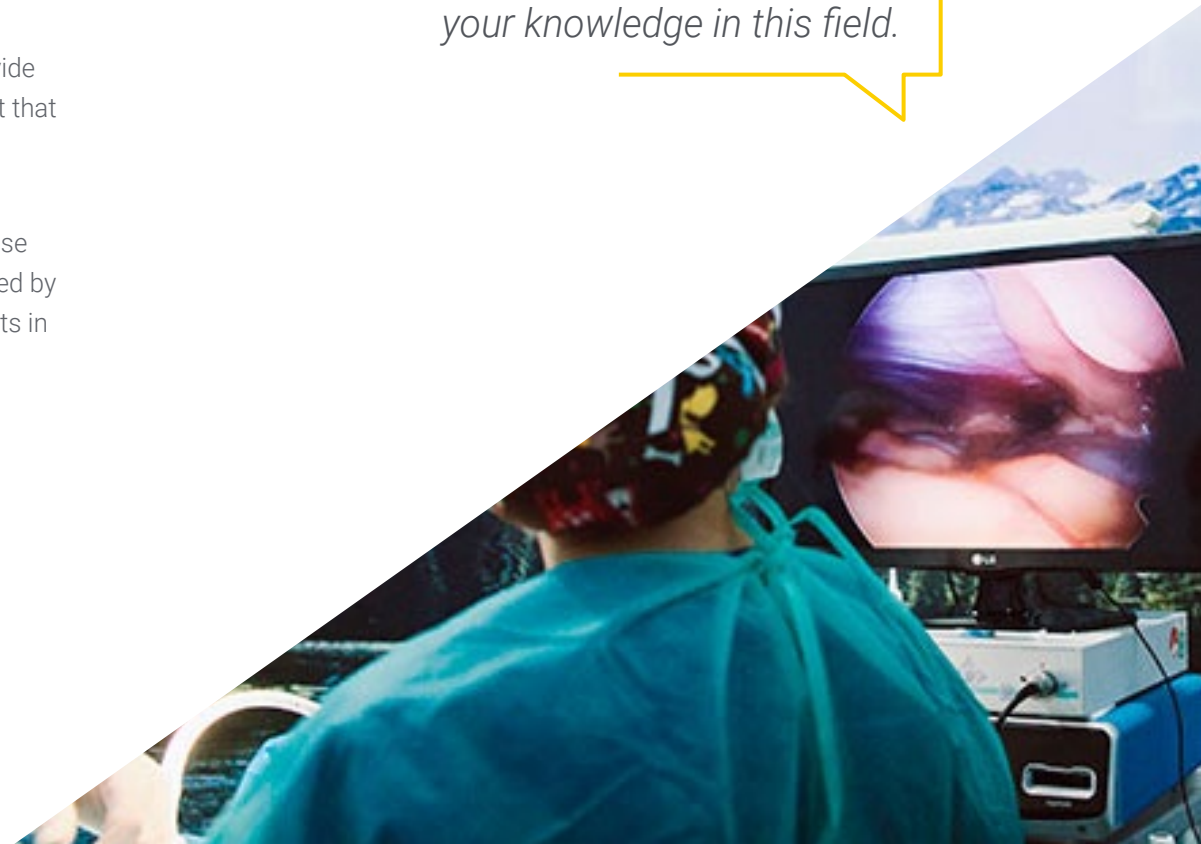
Its teaching staff includes professionals from the veterinary field, who bring the experience of their work to this training, as well as recognised specialists from leading societies and prestigious universities.

The multimedia content, developed with the latest educational technology, will provide the professional with situated and contextual learning, i.e., a simulated environment that will provide immersive training programmed to train in real situations.

The design of this program focuses on problem-based learning, by means of which the specialist must try to solve the different professional practice situations that arise throughout the academic program. For this purpose, the professional will be assisted by an innovative interactive video system created by renowned and experienced experts in Arthroscopy.

*We have the best didactic material and the most innovative educational technology, which will allow you a contextual study that will facilitate your learning.*

*This 100% online program's degree will allow you to combine your studies with your professional work while increasing your knowledge in this field.*

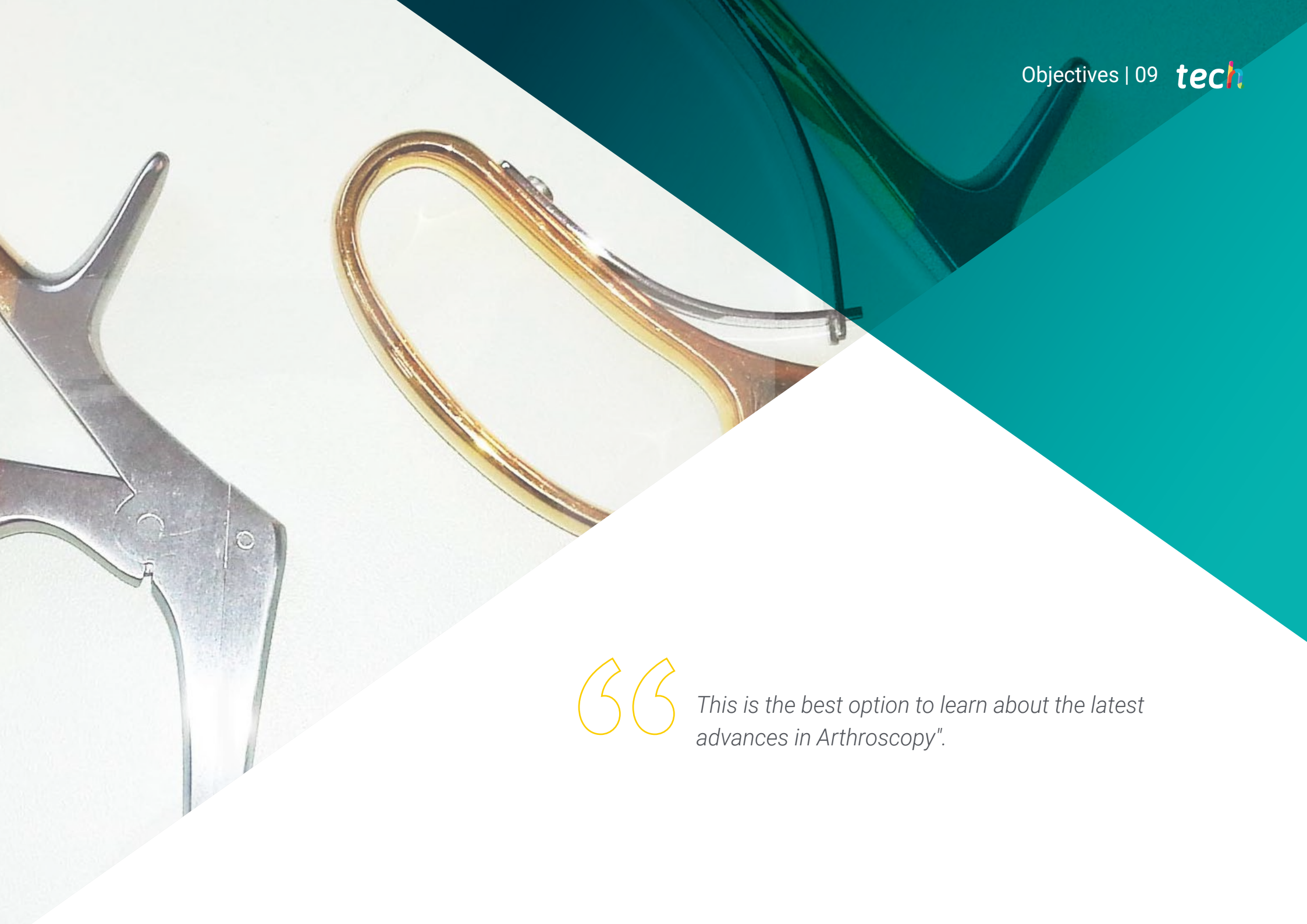


# 02 Objectives

The Postgraduate Certificate in Arthroscopy is oriented to facilitate the professional's performance with the latest advances in the sector.







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*This is the best option to learn about the latest advances in Arthroscopy”.*



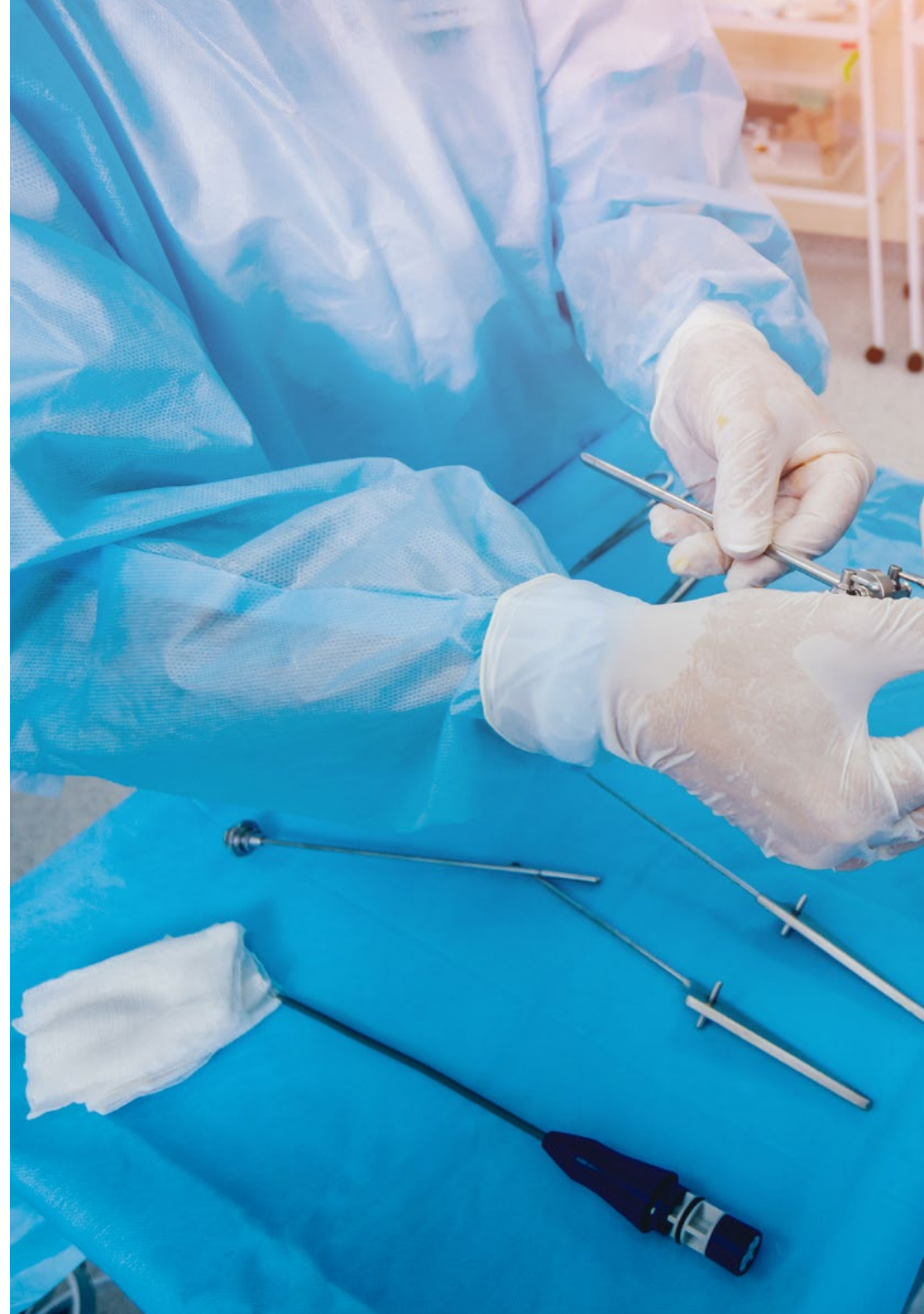
## General Objectives

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- Analyze Arthroscopy techniques in different joints.
- Examining arthroscopic visualization
- Evaluate arthroscopic instrumentation
- Develop surgical techniques guided by Arthroscopy

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





## Specific Objectives

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- ◆ Describe the history and evolution of Arthroscopy in human and veterinary medicine.
- ◆ Evaluate Arthroscopy equipment and instruments and their handling.
- ◆ Examine the advantages of Arthroscopy compared to conventional open surgery.
- ◆ Analyze Arthroscopy as a method of diagnosis of intra-articular pathologies of each joint.
- ◆ Support Arthroscopy as a method of surgical treatment of intra-articular pathologies.
- ◆ Develop Arthroscopy-assisted surgical techniques for the treatment of periarticular pathologies.
- ◆ Establish the contraindications of Arthroscopy, evaluate the complications of this technique and how to solve them.

# 03

## Course Management

The program includes in its teaching staff reference experts in Veterinary Traumatology and Orthopedic Surgery who bring the experience of their work to this specialization. They are world-renowned doctors from different countries with proven theoretical and practical professional experience.





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*Our teaching team will help you achieve success in your profession”.*

## Director



### Graduate. Soutullo Esperón, Ángel

- ♦ Degree in Veterinary Medicine from the Complutense University of Madrid, 1994.
- ♦ Diploma of Advanced Studies in Veterinary Medicine from the Complutense University of Madrid 2010.
- ♦ Member of the Scientific Committee of GEVO and AVEPA 2014.
- ♦ Master's Degree in Surgery and Traumatology Complutense University of Madrid 1996.
- ♦ Lecturer at the Alfonso X el Sabio University 2005-2010 in the subjects of Radiology, Surgical Pathology and Surgery.
- ♦ Responsible for the surgical section in the 2011 AEVA Master's Degree in small animal emergencies.
- ♦ Owner of the veterinary clinic ITECA 1996-2011.
- ♦ Head of the surgery service at the University Hospital of the Alfonso X el Sabio University 2005-2010.
- ♦ Study of the clinical repercussions of corrective osteotomies in tplo (TFG Meskal Ugatz 2018).
- ♦ Study of the clinical repercussions of corrective osteotomies in tplo (TFG Ana Gandia 2020).
- ♦ Studies of biomaterials and xenografts for orthopaedic surgery 2010-2018.

## Professors

### Dr. Monje Salvador, Carlos

- ♦ Head of the Outpatient Surgery and Endoscopy Service.
- ♦ Head of Surgery and Minimally Invasive Surgery Department. (Endoscopy, laparoscopy, bronchoscopy, rhinoscopy, etc...).
- ♦ Head of the Diagnostic Imaging Service. (Advanced Abdominal Ultrasound and Radiology).



# 04

# Structure and Content

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





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*We have the most complete and up-to-date academic program in the market. We want to achieve excellence and we want you to achieve it too.”*

## Module 1. Arthroscopy

- 1.1. History of Arthroscopy
  - 1.1.1. Start of Arthroscopy in Human Medicine
  - 1.1.2. Start of Veterinary Arthroscopy
  - 1.1.3. Dissemination of Veterinary Arthroscopy
  - 1.1.4. Future of Arthroscopy
- 1.2. Advantages and Disadvantages of Arthroscopy
  - 1.2.1. Open versus Minimally Invasive Surgery
  - 1.2.2. Economic Aspects of Arthroscopy
  - 1.2.4. Arthroscopy Techniques Training
- 1.3. Arthroscopy Instruments and Equipment
  - 1.3.1. Endoscopy Equipment
  - 1.3.2. Arthroscopy Specific Material
  - 1.3.3. Instrumentation and Implants for Intra-articular Surgery
  - 1.3.4. Cleaning, Disinfection and Maintenance of Arthroscopy Instruments
- 1.4. Elbow Arthroscopy
  - 1.4.1. Patient Preparation and Positioning
  - 1.4.2. Joint Anatomy of the Elbow
  - 1.4.3. Arthroscopic Approach to the Elbow
  - 1.4.4. Fragmentation of the Medial Coronoid Process
  - 1.4.5. Osteochondrosis-Osteochondritis Dissecans of the Humeral Condyle
  - 1.4.6. Medial Compartment Syndrome
  - 1.4.7. Other Pathologies and Indications for Elbow Arthroscopy
  - 1.4.8. Contraindications and Complications in Elbow Arthroscopy
- 1.5 Shoulder Arthroscopy
  - 1.5.1. Patient Preparation and Positioning
  - 1.5.2. Shoulder Joint Anatomy
  - 1.5.3. Lateral and Medial Approach of the Shoulder with the Limb Hanged
  - 1.5.4. Osteochondrosis-Osteochondritis Discordans of the Shoulder
  - 1.5.5. Bicipital Tendonitis
  - 1.5.6. Shoulder Instability
  - 1.5.7. Other Pathologies and Indications for Shoulder Arthroscopy
  - 1.5.8. Contraindications and Complications in Shoulder Arthroscopy





- 1.6. Knee Arthroscopy
  - 1.6.1. Patient Preparation and Positioning
  - 1.6.2. Knee Joint Anatomy
  - 1.6.3. Arthroscopic Approach to the Knee
  - 1.6.4. Cranial Cruciate Ligament Injury
  - 1.6.5. Menisopathies
  - 1.6.6. Osteochondrosis-Osteochondritis Dissecans
  - 1.6.7. Other Pathologies and Indications for Knee Arthroscopy
  - 1.6.8. Contraindications and Complications in Knee Arthroscopy
- 1.7. Hip Arthroscopy
  - 1.7.1. Patient Preparation and Positioning
  - 1.7.2. Hip Approach
  - 1.7.3. Pathologies and Indications of Hip Arthroscopy
  - 1.7.4. Contraindications and Complications in Hip Arthroscopy
- 1.8. Tarsal Arthroscopy
  - 1.8.1. Articular Anatomy of the Tarsus
  - 1.8.2. Patient Preparation and Positioning
  - 1.8.3. Arthroscopic Approach to the Tarsus
  - 1.8.4. Pathologies and Indications in Tarsus Arthroscopy
  - 1.8.5. Contraindications and Complications in Tarsal Arthroscopy
- 1.9. Carpal Arthroscopy
  - 1.9.1. Articular Anatomy of the Carpus
  - 1.9.2. Patient Preparation and Positioning
  - 1.9.3. Arthroscopic Approach of the Carpus
  - 1.9.4. Pathologies and Indications for Carpal Arthroscopy
  - 1.9.5. Contraindications and Complications in Carpal Arthroscopy
- 1.10. Arthroscopy-assisted Surgery
  - 1.1.10.1. Bone Anchors and Other Implants for Joint Stabilization Surgery
  - 1.1.10.2. Arthroscopy-Assisted Shoulder Stabilization Surgery

# 05 Methodology

This training provides you with a different way of learning. Our methodology uses a cyclical learning approach: ***Re-learning***.

This teaching system is used in the most prestigious medical schools in the world, and major publications such as the ***New England Journal of Medicine*** have considered it to be one of the most effective.





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*Discover Re-learning, 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

In a given clinical situation, what would you do? 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 can 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 potential or because of its uniqueness or rarity. It is essential that the case be based on current professional life, trying to recreate the real conditions in the Veterinarian's Professional Practice.

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*Did you know that this method was developed in 1912 at Harvard for law students? The case method consisted of presenting students with real-life, complex situations for them to make decisions and justify their decisions on how to solve them. In 1924, Harvard adopted it as a standard teaching method.*

The effectiveness of the method is justified by four fundamental achievements:

1. Veterinarians who follow this method not only achieve the assimilation of concepts, but also a development of their mental capacity through exercises to evaluate real situations and the application of knowledge.
2. The learning process has a clear focus on 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 of efficiency of the effort invested becomes a very important stimulus for the veterinarian, which translates into a greater interest in learning and an increase in the time dedicated to working on the program.



## Re-learning Methodology

At TECH we enhance the Harvard case method with the best 100% online teaching methodology available: Re-learning.

Our 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, which represent a real revolution with respect to simply studying and analyzing 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 Re-learning method has managed to improve the overall satisfaction levels of professionals who complete their studies, with respect to the quality indicators of the best Spanish-speaking online university (Columbia University).

With this methodology we have trained more than 65,000 veterinarians with unprecedented success, in all clinical specialties regardless of the surgical load. All this in a highly demanding environment, where the students have a strong socio-economic profile and an average age of 43.5 years.

*Re-learning 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 to success.*

In our program, learning is not a linear process, but rather a spiral (we learn, unlearn, forget, and re-learn). Therefore, we combine each of these elements concentrically.

The overall score obtained by our learning system is 8.01, according to the highest international standards.



In this program you will have access to the best educational material, prepared with you in mind:



### Study Material

All didactic contents are created by the specialists who will be teaching the program, specifically for it, so that the didactic development is really specific and concrete.

This content is then adapted in an audiovisual format that will create our way of working online, with the latest techniques that allow us to offer you high quality in all of the material that we provide you with.



### Latest Techniques and Procedures on Video

We bring you closer to the latest Techniques, to the latest Educational Advances, to the forefront of current Veterinary Techniques and Procedures. All this, in first person, with the maximum rigor, explained and detailed for your assimilation and understanding. And best of all, you can watch them as many times as you want.



### Interactive Summaries

We present the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

This unique multimedia content presentation training system was awarded by Microsoft as a "European Success Story".



### Additional Reading

Recent articles, consensus documents, international guides. in our virtual library you will have access to everything you need to complete your training.





**Expert-led case studies and case analysis**

Effective learning ought to be contextual. Therefore, we will present you with real case developments in which the expert will guide you through the development of attention and the resolution of different situations: a clear and direct way to achieve the highest degree of understanding.



**Testing & Retesting**

We periodically evaluate and re-evaluate your knowledge throughout the program, through assessment and self-assessment activities and exercises: so that you can see how you are achieving your 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 our difficult future decisions.



**Quick Action Guides**

We provide you with the most important contents of the program in the form of fact sheets or quick action guides. A synthetic, practical, and effective way to help you progress in your learning.



# 06 Certificate

The **Postgraduate Certificate in Arthroscopy** guarantees you, in addition to the most rigorous and up to date training, access to a degree issued by the first educational institution, the **Technological University - TECH**.



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*Successfully complete this specialization and receive your Postgraduate Certificate without having to travel or go through cumbersome procedures”.*

This **Postgraduate Certificate in Arthroscopy** contains the most complete and up to date scientific program on the market. After the student has passed the evaluations, they will receive their corresponding **Postgraduate Certificate** issued by **TECH - Technological University**.

The diploma issued by **TECH - Technological University** will express the qualification obtained in the **Postgraduate Certificate** and will meet the requirements commonly demanded by job exchanges, competitive examinations and professional career evaluation committees.

Title: **Postgraduate Certificate in Arthroscopy**

ECTS: **6**

Official Number of Hours: **150 hours**.



\*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  
classroom



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