Postgraduate Certificate

Invasive Techniques in Sports: Percutaneous Electrolysis

Endorsed by the NBA

tech global university

tech global university

Postgraduate Certificate

Invasive Techniques in Sports: Percutaneous Electrolysis

- Modality: **online**
- Duration: **6 weeks**
- Certificate: **TECH Global University**
- Accreditation: **5 ECTS**
- Schedule: **at your own pace**
- Exams: **online**

Website: **www.techtitute.com/us/physiotherapy/postgraduate-certificate/invasive-techniques-sports-percutaneous-electrolysis**

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01

Introduction

Percutaneous Electrolysis is an invasive physiotherapy technique that involves the eco-guided application of a galvanic current through an acupuncture needle, which generates a local inflammatory process, allowing phagocytosis and the repair of the affected soft tissue (tendon, ligament, muscle, etc.). In this course, you will learn everything that this type of intervention can bring to your work as a physiotherapist.

Learn to use percutaneous electrolysis to intervene in problems requiring invasive physiotherapy"

The galvanic electric current and the mechanical stimulus of the needle itself constitute physical agents that are part of the therapeutic field of physiotherapy. When used in the appropriate context, they provide an efficient and extensive working method. In this course, you will learn from the best how to use percutaneous electrolysis effectively.

It is a comprehensive resource that professionals will find highly useful and interesting for growth in their careers.

Throughout the Postgraduate Certificate, physiotherapists will gain knowledge of injury processes and the planning of diagnostic, functional, therapeutic, and preventive methods that ensure the complete functional recovery of the injured individual.

Additionally, participants will acquire advanced evaluation techniques that enable physiotherapists to maximize therapeutic resources in the care process for athletes.

Finally, the training journey will allow participants to develop care models based on the most up-to-date evidence in the most common sports environments.

A comprehensive Postgraduate Certificate created for physiotherapy professionals, which will allow you to balance your training with other commitments and access it from anywhere with complete flexibility"

This **Postgraduate Certificate in Invasive Techniques in Sports: Percutaneous Electrolysis** contains the most complete and up-to-date scientific program on the market. The most important features include:

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

Stay up to date with all the latest developments in the field of physiotherapy with the effectiveness of the best Postgraduate Certificate in this field, available in the educational market"

Our teaching staff is made up of working professionals. In this way, we ensure that we provide you with the educational update we are aiming for. A multidisciplinary team of practitioners trained and experienced in different environments, who will develop the theoretical knowledge in an efficient way, but, above all, will put at the service of the Postgraduate Certificate the practical knowledge derived from their own experience: one of the differential qualities of this training.

This mastery of the subject is complemented by the effectiveness of the methodology used in the design of this course. Developed by a multidisciplinary team of e-learning experts, it integrates the latest advances in educational technology. This way, you will be able to study with a range of comfortable and versatile multimedia tools that will give you the operability you need in your training.

The design of this program is based on Problem-Based Learning: an approach that conceives learning as a highly practical process. To achieve this remotely, we will use *telepractice* learning: with the help of an innovative interactive video system, and *learning from an expert*, you will be able to acquire the knowledge as if you were actually dealing with the scenario you are learning about. This concept will enable you to integrate and consolidate learning in a more realistic and lasting way.

An effective and secure Postgraduate Certificate that will guide you through an engaging and efficient learning process, enabling you to acquire all the knowledge of an expert in the field.

Cutting-edge training created to propel you toward greater competitiveness in the labor market.

02

Objectives

This comprehensive Postgraduate Certificate has been created from start to finish to become a tool for personal and professional growth for physiotherapists. Its goal is to guide you through a training process that will allow you to acquire the most up-to-date knowledge and techniques for the most advanced and competitive practice in this field.

Learn to use percutaneous electrolysis like an expert in just a few weeks of training and give your CV a quality boost"

General Objectives

- Understand the pathomechanical foundations that underpin the most common sports injuries by region or sport
- Develop the therapeutic options from the fundamentals of Evidence-Based Physiotherapy for a better understanding of the injuries and their approach
- Acquire knowledge on the advanced assessment of the musculoskeletal system and the alterations that can be found within it
- Learn the fundamentals of modern approaches in pain management, tissue repair, and normal movement disorders, essential for performing correct athletic movements
- Formulate a physiotherapy diagnosis according to internationally recognized standards and scientific validation tools
- Develop skills in functional assessment through interviews, observation, measurement, and planning in physiotherapy interventions
- Execute, direct and coordinate the physiotherapy intervention plan, taking into account the principles of patient individuality, using the therapeutic tools of physiotherapy, that is, the different methods, procedures, actions and techniques, to treat the alterations caused by sports injuries, relating the current pathophysiological knowledge with the physiotherapy treatment
- Assess the progress of treatment outcomes in relation to the established objectives and criteria, and if necessary, redesign the objectives and adjust the intervention or treatment plan

Specific Objectives

- Evaluate the evolution of the results obtained with invasive physiotherapy techniques in relation to the set objectives
- Acquire the theoretical knowledge necessary for the proper, safe, and effective application of invasive physiotherapy techniques
- Acquire the practical skills and technical ability required for the application of musculoskeletal percutaneous electrolysis

High-level specialization objectives in a program designed to train the best professionals in Sports Physiotherapy"

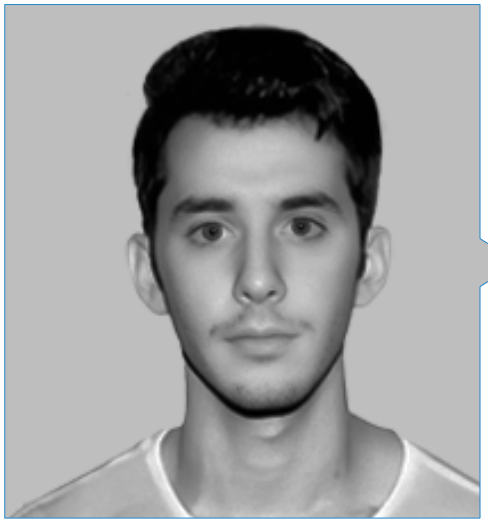
03

Course Management

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

With the expertise of industry professionals who will teach you based on the reality of the sector in a contextual and realistic learning"

Management



Dr. Martínez Gómez, Rafael

- CEO and Founder of RehabMG
- Doctor in Physical Activity and Sports Sciences
- Master's Degree in Biomechanics and Sports Physiotherapy
- Bachelor's Degree in Physiotherapy

Faculty

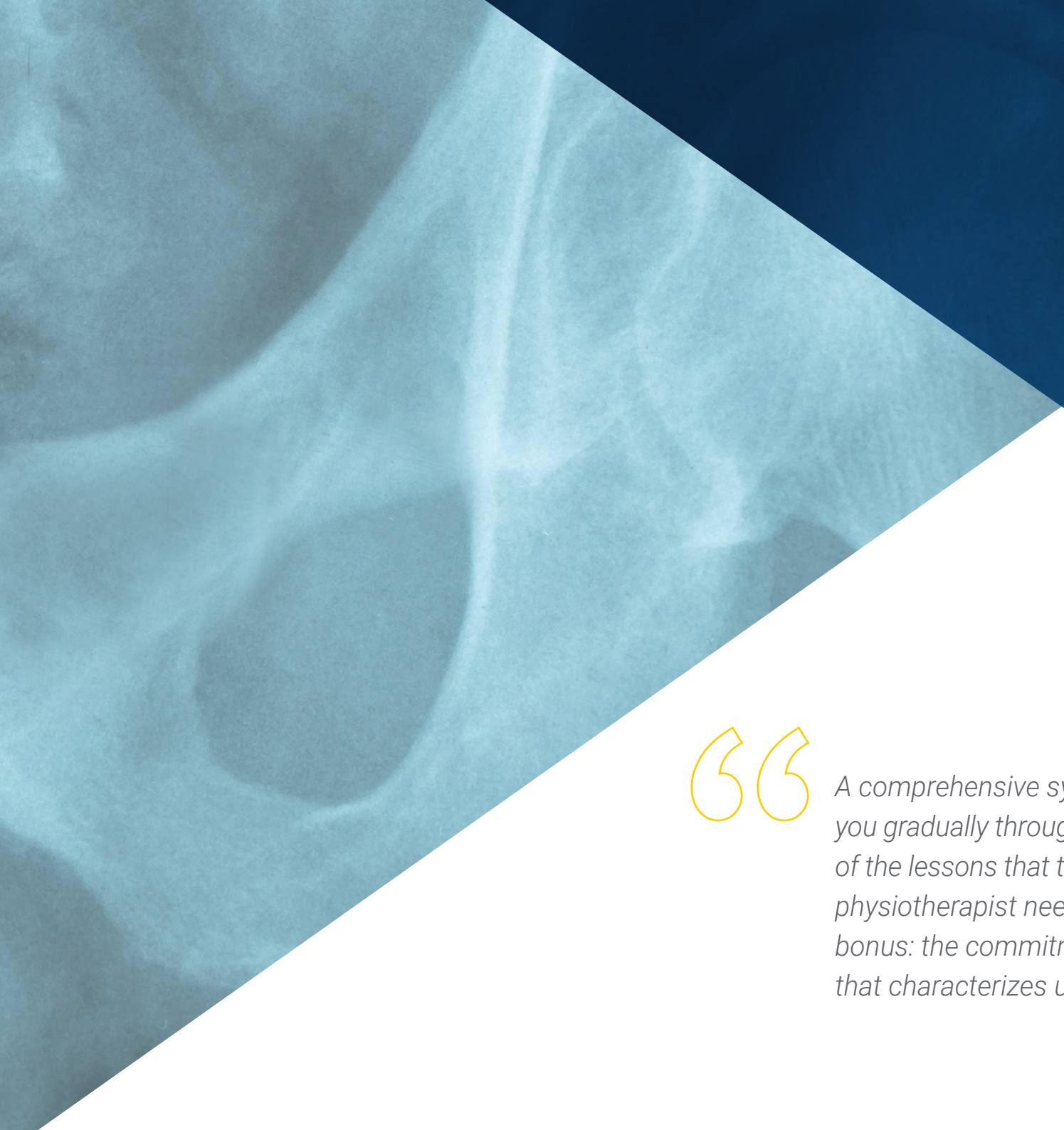
Mr. Ruiz González, Eduardo

- Director and Physiotherapist at FISIONES Physiotherapy Center
- Director and Physiotherapist at Las Cruces Polivalente Health Center
- Master's Degree in Biomechanics and Sports Physiotherapy from the Comillas Pontifical University
- Expert in Fascial and Craniosacral Therapy from the European University of Madrid
- Bachelor's Degree in Physiotherapy from Comillas Pontifical University

03

Structure and Content

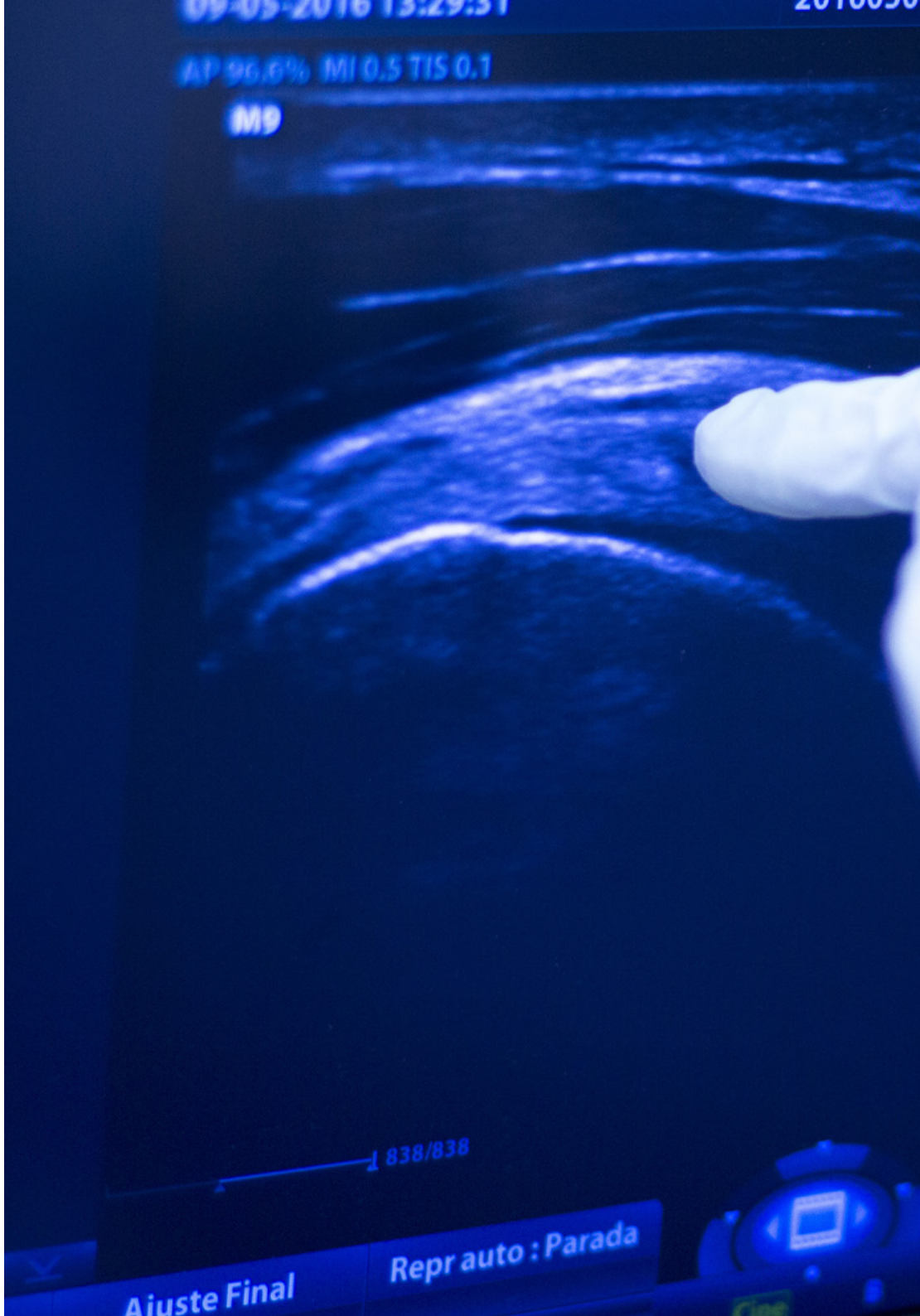
The contents of this Postgraduate Certificate have been developed by the various renowned faculty members of this course. As such, TECH Global University has a clear objective: to ensure that our students acquire each and every skill necessary to become true experts in the field of Sports Physiotherapy. All of this makes it a comprehensive and well-structured program that will lead you towards the highest standards of quality and success.



A comprehensive syllabus that will take you gradually through each and every one of the lessons that the professional sports physiotherapist needs. With an added bonus: the commitment to excellence that characterizes us"

Module 1. Invasive Techniques in Sports: Percutaneous Electrolysis

1.1. Neuromechanical Model
  1.1.1. Invasive Physiotherapy Techniques in Sports
  1.1.2. Structural Analysis
1.2. Ultrasound-Guided Percutaneous Electrolysis
  1.2.1. Concept and Clinical Utility
1.3. Mechanisms of Action
1.4. Physiotherapy Diagnosis
  1.4.1. Selection of the Target Tissue
  1.4.2. Clinical reasoning
1.5. Application Method. Tendon and Muscle
1.6. Usage Parameters
1.7. Clinical Case 1. Tendinopathies. Part I. Percutaneous Electrolysis
1.8. Clinical Case 2. Muscle Injury. Neuromechanical Model. Part I. Percutaneous Electrolysis



A comprehensive teaching program, structured in well-developed teaching units, oriented toward a high impact learning and qualification"

05

Study Methodology

TECH is the world's first university to combine the **case study** methodology with **Relearning**, a 100% online learning system based on guided repetition.

This disruptive pedagogical strategy has been conceived to offer professionals the opportunity to update their knowledge and develop their skills in an intensive and rigorous way. A learning model that places students at the center of the educational process giving them the leading role, adapting to their needs and leaving aside more conventional methodologies.

TECH will prepare you to face new challenges in uncertain environments and achieve success in your career"

The student: the priority of all TECH programs

In TECH's study methodology, the student is the main protagonist.
The teaching tools of each program have been selected taking into account the demands of time, availability and academic rigor that, today, not only students demand but also the most competitive positions in the market.

With TECH's asynchronous educational model, it is students who choose the time they dedicate to study, how they decide to establish their routines, and all this from the comfort of the electronic device of their choice. The student will not have to participate in live classes, which in many cases they will not be able to attend. The learning activities will be done when it is convenient for them. They can always decide when and from where they want to study.

"At TECH you will NOT have live classes (which you might not be able to attend)"

The most comprehensive study plans at the international level

TECH is distinguished by offering the most complete academic itineraries on the university scene. This comprehensiveness is achieved through the creation of syllabi that not only cover the essential knowledge, but also the most recent innovations in each area.

By being constantly up to date, these programs allow students to keep up with market changes and acquire the skills most valued by employers. In this way, those who complete their studies at TECH receive a comprehensive education that provides them with a notable competitive advantage to further their careers.

And what's more, they will be able to do so from any device, pc, tablet or smartphone.

> *TECH's model is asynchronous, so it allows you to study with your pc, tablet or your smartphone wherever you want, whenever you want and for as long as you want"*

Case Studies and Case Method

The case method has been the learning system most used by the world's best business schools. Developed in 1912 so that law students would not only learn the law based on theoretical content, its function was also to present them with real complex situations. In this way, they could make informed decisions and value judgments about how to resolve them. In 1924, Harvard adopted it as a standard teaching method.

With this teaching model, it is students themselves who build their professional competence through strategies such as Learning by Doing or Design Thinking, used by other renowned institutions such as Yale or Stanford.

This action-oriented method will be applied throughout the entire academic itinerary that the student undertakes with TECH. Students will be confronted with multiple real-life situations and will have to integrate knowledge, research, discuss and defend their ideas and decisions. All this with the premise of answering the question of how they would act when facing specific events of complexity in their daily work.

Relearning Methodology

At TECH, case studies are enhanced with the best 100% online teaching method: Relearning.

This method breaks with traditional teaching techniques to put the student at the center of the equation, providing the best content in different formats. In this way, it manages to review and reiterate the key concepts of each subject and learn to apply them in a real context.

In the same line, and according to multiple scientific researches, reiteration is the best way to learn. For this reason, TECH offers between 8 and 16 repetitions of each key concept within the same lesson, presented in a different way, with the objective of ensuring that the knowledge is completely consolidated during the study process.

Relearning will allow you to learn with less effort and better performance, involving you more in your specialization, developing a critical mindset, defending arguments, and contrasting opinions: a direct equation to success.

A 100% online Virtual Campus with the best teaching resources

In order to apply its methodology effectively, TECH focuses on providing graduates with teaching materials in different formats: texts, interactive videos, illustrations and knowledge maps, among others. All of them are designed by qualified teachers who focus their work on combining real cases with the resolution of complex situations through simulation, the study of contexts applied to each professional career and learning based on repetition, through audios, presentations, animations, images, etc.

The latest scientific evidence in the field of Neuroscience points to the importance of taking into account the place and context where the content is accessed before starting a new learning process. Being able to adjust these variables in a personalized way helps people to remember and store knowledge in the hippocampus to retain it in the long term. This is a model called Neurocognitive context-dependent e-learning that is consciously applied in this university qualification.

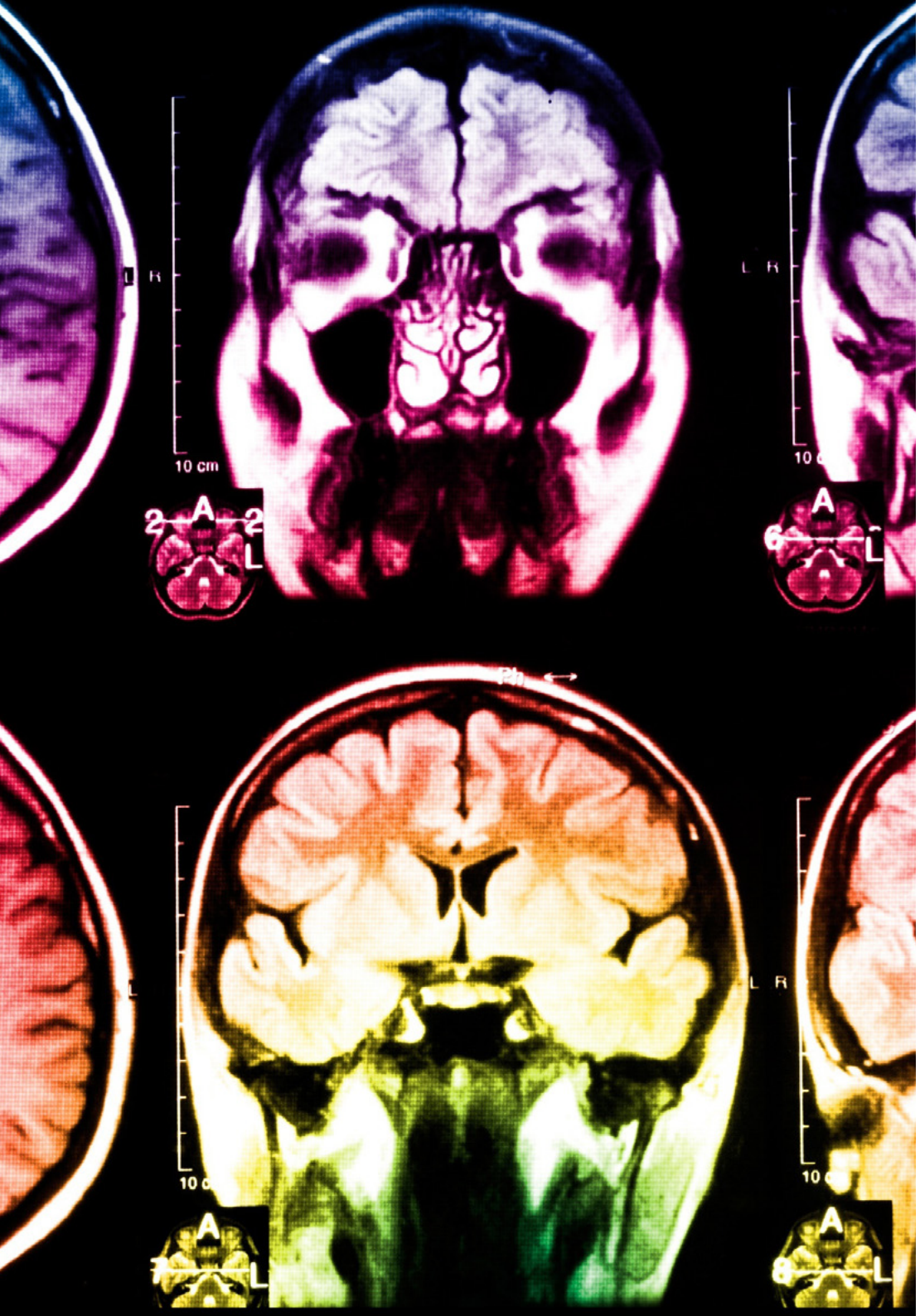
In order to facilitate tutor-student contact as much as possible, you will have a wide range of communication possibilities, both in real time and delayed (internal messaging, telephone answering service, email contact with the technical secretary, chat and videoconferences).

Likewise, this very complete Virtual Campus will allow TECH students to organize their study schedules according to their personal availability or work obligations. In this way, they will have global control of the academic content and teaching tools, based on their fast-paced professional update.

"The online study mode of this program will allow you to organize your time and learning pace, adapting it to your schedule"

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

1. Students who follow this method not only achieve the assimilation of concepts, but also a development of their mental capacity, through exercises that assess real situations and the application of knowledge.
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. Students like to feel that the effort they put into their studies is worthwhile. This then translates into a greater interest in learning and more time dedicated to working on the course.



The university methodology top-rated by its students

The results of this innovative teaching model can be seen in the overall satisfaction levels of TECH graduates.

The students' assessment of the teaching quality, the quality of the materials, the structure of the program and its objectives is excellent. Not surprisingly, the institution became the top-rated university by its students according to the global score index, obtaining a 4.9 out of 5.

Access the study contents from any device with an Internet connection (computer, tablet, smartphone) thanks to the fact that TECH is at the forefront of technology and teaching.

You will be able to learn with the advantages that come with having access to simulated learning environments and the learning by observation approach, that is, Learning from an expert.

As such, the best educational materials, thoroughly prepared, will be available in this program:

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.

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.

Practicing Skills and Abilities

You will carry out activities to develop specific competencies and skills in each thematic field. Exercises and activities to acquire and develop the skills and abilities that a specialist needs to develop within the framework of the globalization we live in.

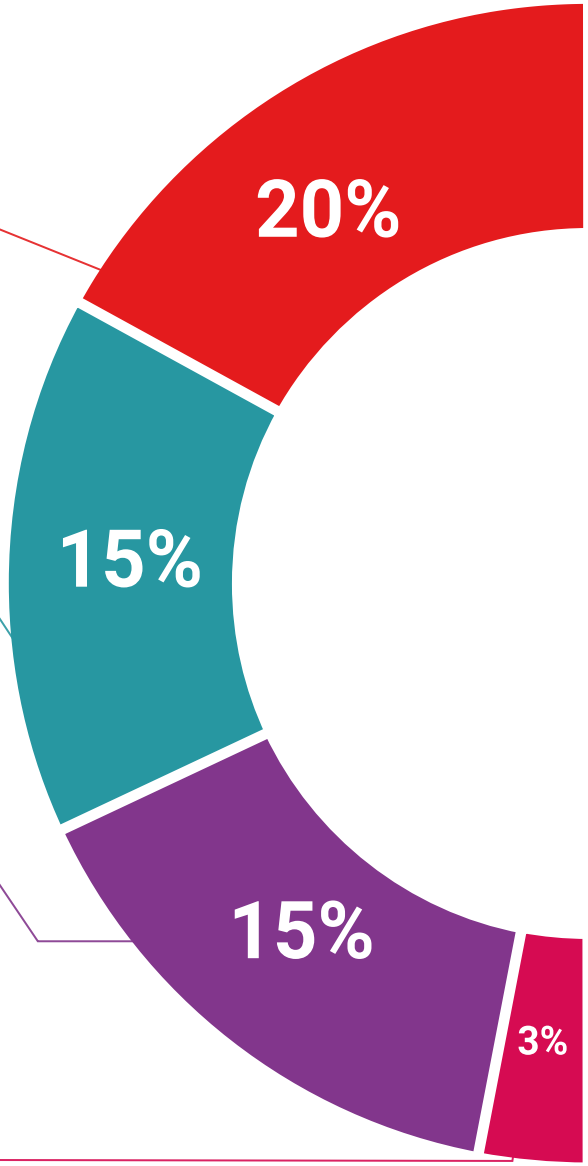
Interactive Summaries

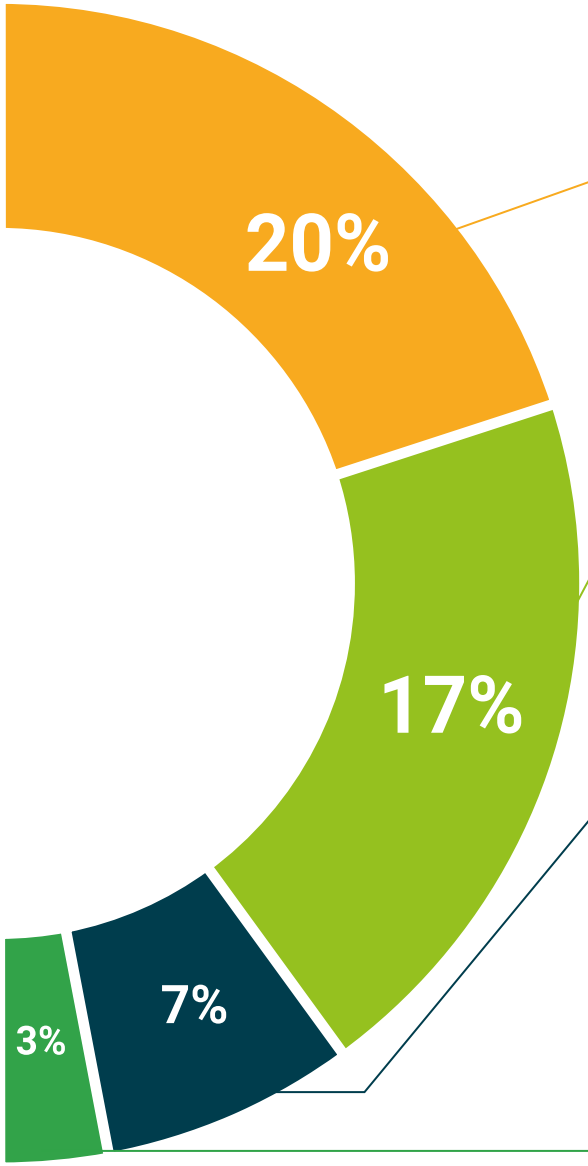
We present the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

This exclusive educational system for presenting multimedia content 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 education.





Case Studies

Students will complete a selection of the best case studies in the field. Cases that are presented, analyzed, and supervised by the best specialists in the world.

Testing & Retesting

We periodically assess and re-assess your knowledge throughout the program. We do this on 3 of the 4 levels of Miller's Pyramid.

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 for 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.

05

Certificate

Postgraduate Certificate in Invasive Techniques in Sports: Percutaneous Electrolysis Therapy guarantees students, in addition to the most rigorous and up-to-date education, access to a diploma for the Postgraduate Certificate issued by TECH Global University.

Include in your training a Postgraduate Certificate in Invasive Techniques in Sports: Percutaneous Electrolysis. A high quality added value for any medical professional"

This private qualification will allow you to obtain a diploma for the **Postgraduate Certificate in Invasive Techniques in Sports: Percutaneous Electrolysis** endorsed by TECH Global University, the world's largest online university.

TECH Global University, is an official European University publicly recognized by the Government of Andorra ***(official bulletin)***. Andorra is part of the European Higher Education Area (EHEA) since 2003. The EHEA is an initiative promoted by the European Union that aims to organize the international training framework and harmonize the higher education systems of the member countries of this space. The project promotes common values, the implementation of collaborative tools and strengthening its quality assurance mechanisms to enhance collaboration and mobility among students, researchers and academics.

This **TECH Global University** private qualification, is a European program of continuing education and professional updating that guarantees the acquisition of competencies in its area of knowledge, providing a high curricular value to the student who completes the program.

Title: **Postgraduate Certificate in Invasive Techniques in Sports: Percutaneous Electrolysis**

Modality: **online**

Duration: **6 weeks**

Accreditation: **5 ECTS**


tech global university

Mr./Ms. _____, with identification document _____
has successfully passed and obtained the title of:

Postgraduate Certificate in Invasive Techniques in Sports: Percutaneous Electrolysis

This is a private qualification of 150 hours of duration equivalent to 6 ECTS, with a start date of dd/mm/yyyy and an end date of dd/mm/yyyy.

TECH Global University is a university officially recognized by the Government of Andorra on the 31st of January of 2024, which belongs to the European Higher Education Area (EHEA).

In Andorra la Vella, on the 28th of February of 2024

Dr. Pedro Navarro Illana
Dean

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

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

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