



# Lower Limb and Sport

» Modality: online

» Duration: 6 weeks

» Certificate: TECH Global University

» Accreditation: 8 ECTS

» Schedule: at your own pace

» Exams: online

Website: www.techtitute.com/us/physiotherapy/postgraduate-certificate/lower-limbs-sport

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# tech 06 | Introduction

The upper limbs are involved in a large number of sports in which throwing, propulsion and strength are common factors of great value in the athlete's performance.

The great variety of injuries that can affect the performance of the movements outlined above are described in this module by a group of physiotherapists who develop their work in sports, in which the upper limbs are protagonists; Tennis, swimming, mountaineering.

Shoulder and elbow are two important anatomical levels where most of the frequent injuries occur.

The functional evaluation process through validated tests, as well as the approach to therapeutic objectives and how to achieve them through the most appropriate and evidence-based techniques, with a view to ensuring a full recovery for the athlete, all form a common thread in this highly applicable module. Above all, it is designed to offer a direct relationship between the anatomical level and the most frequent injury/most common scenario, thereby providing it with considerable preventive value.

A complete compendium that professionals will find extremely useful and interesting to grow in their profession.

Throughout the program, the physiotherapy professional will gain knowledge of injury processes and the planning of diagnostic, functional, therapeutic, and preventive measures to ensure the full functional recovery of the injured person.

Likewise, professionals will gain knowledge on advanced areas of assessment that will allow them to maximize therapeutic resources in the process of attention to the athlete.

And finally, an educational journey that will allow them to develop models of care based on the most up-to-date evidence in the most frequent sporting environments.

This **Postgraduate Certificate in Lower Limbs and Sport** 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 accessible from any fixed or portable device
- Supplementary documentation databases are permanently available, even after the program



A comprehensive Postgraduate Certificate created for physiotherapy professionals, which will allow you to combine your studies with other professional responsibilities and access the course from any location with total flexibility"



An effective and safe Postgraduate Certificate, which will take you through an interesting learning process, so that you acquire all the knowledge of an expert in the field"

Our teaching staff is made up of working professionals. In this way we ensure that we deliver the educational update we are aiming for. A multidisciplinary team of professionals, experienced in various environments, will deliver the theoretical knowledge efficiently, but, most importantly, they will bring practical insights derived from their own experience to the Postgraduate Certificate: one of the distinguishing features of this program.

This expertise is complemented by the effectiveness of the methodological design of this Postgraduate Certificate, developed by a multidisciplinary team of experts in E-learning, integrating 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 education.

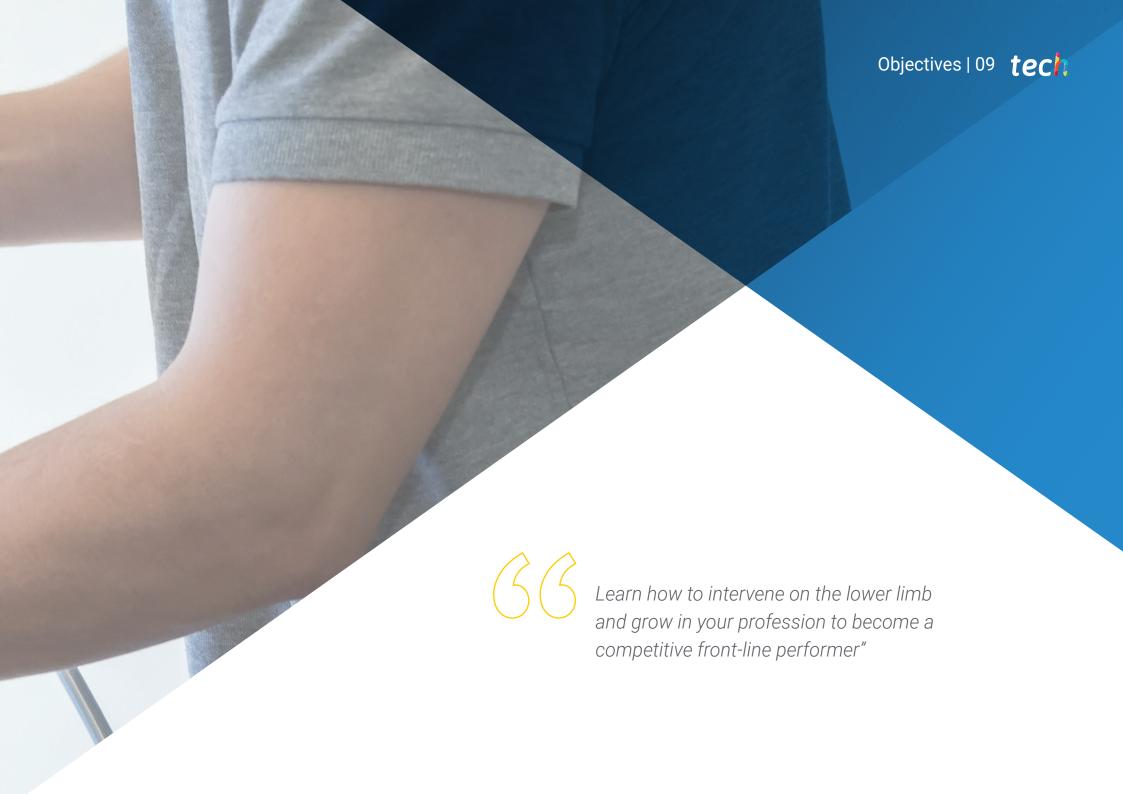
The design of this program is based on Problem-Based Learning: an approach that conceives learning as a highly practical process. To achieve this remotely, we will use telepractice learning: with the help of an innovative interactive video system, and Learning from an Expert, you will be able to acquire 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.

The most efficient online teaching training in sports physiotherapy focused on lower limb work.

A cutting-edge program designed to propel you towards greater competitiveness in the job market.







# tech 10 | Objectives



### **General Objectives**

- Understand the pathomechanical bases that support the most frequent 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.
- Possess knowledge of advanced exploration of the locomotor system and the alterations that can be found in it
- Know the fundamentals of modern approaches to pain management, tissue repair and normal movement disorders, necessary for correct sporting gestures
- 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 intrinsic and extrinsic factors that may precipitate the onset of injury in the lower limbs
- Formulate functional diagnoses that correlate the user's condition with pathophysiological limitations
- Design physiotherapy intervention protocols tailored to the injured anatomical region and the sport performed
- Educate the patient and other collaborators in the detection and assessment of risks



A high-level specialization process in training designed to prepare the best professionals in Sports Physiotherapy"







# tech 14 | Course Management

### 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. Fernández Bartolomé, Álvaro

- Physiotherapist at RehabMG Clinic
- Personal Trainer
- Bachelor's Degree in Physiotherapy
- Bachelor's Degree in Physical Activity and Sport Sciences





# tech 18 | Structure and Content

#### Module 1. Lower Limbs and Sport

- 1.1. Overview, Epidemiology and Principles of Terminological Uniformity According to the "DOHA Agreement" in the Athlete's Hip
- 1.2. Principles of Functional and Physical Assessment
  - 1.2.1. Identification of Dysfunctional Movement Patterns
  - 1.2.2. Differential Diagnosis of Syndromes
- 1.3. Dysfunction/Pain and Trauma of the Hip Region
- 1.4. Principles of Adductor-Related Groin Pain Management
- 1.5. Principles of Femoroacetabular Impingement Treatment
- 1.6. Clinical and Functional Indicators in the Determination of "Return to Play"
- 1.7. Functional Assessment of the Knee: Neuro-Orthopedic Approach
- 1.8. Repetitive Stress Syndrome
  - 1.8.1. Functional Assessment
  - 1.8.2. Physiotherapy Treatment
- 1.9. Iliotibial Band Syndrome
  - 1.9.1. Functional Assessment
  - 1.9.2. Physiotherapy Treatment
- 1.10. Goosefoot Syndrome
  - 1.10.1. Functional Assessment
  - 1.10.2. Physiotherapy Treatment
- 1.11. Ankle Ligament Injuries in Contact Sports
  - 1.11.1. Etiology and Pathophysiology
  - 1.11.2. Diagnosis
    - 1.11.2.1. Clinical Tests
    - 1.11.2.2. Complementary Tests
  - 1.11.3. Physiotherapy Treatment
    - 1.11.3.1. Acute Phase
    - 1.11.3.2. Functional Recovery Phase
    - 1.11.3.3. Return to Sporting Activity Phase
    - 1.11.3.4. Complications of Ligament Injuries
    - 1.11.3.5. Preventive Work





# Structure and Content | 19 tech

- 1.12. Metatarsalgia
  - 1.12.1. Functional Assessment
  - 1.12.2. Podiatric Assessment
  - 1.12.3. Therapeutic Approach
- 1.13. Plantar Fasciitis
  - 1.13.1. Functional Assessment
  - 1.13.2. Podiatric Assessment
  - 1.13.3. Therapeutic Approach
- 1.14. Sports Footwear
  - 1.14.1. Main Components
  - 1.14.2. Types by Sport



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





### 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.







### 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"

# tech 24 | Study Methodology

#### 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.



# tech 26 | Study Methodology

#### 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.

### Study Methodology | 27 tech

### 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.







# tech 32 | Certificate

This private qualification will allow you to obtain a diploma for the **Postgraduate**Certificate in Lower Limbs and Sport 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 Lower Limbs and Sport

Modality: **online** 

Duration: 6 weeks

Accreditation: 8 ECTS



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

#### Postgraduate Certificate in Lower Limbs and Sport

This is a private qualification of 240 hours of duration equivalent to 8 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



health confidence people information tutors guarantee accreditation teaching institutions technology learning



# Postgraduate Certificate Lower Limb

and Sport

- » Modality: online
- » Duration: 6 weeks
- » Certificate: TECH Global University
- » Accreditation: 8 ECTS
- » Schedule: at your own pace
- » Exams: online

