

# Postgraduate Certificate

## Thigh Ultrasound in Physiotherapy





## Postgraduate Certificate Thigh Ultrasound in Physiotherapy

- » Modality: online
- » Duration: 6 weeks
- » Certificate: TECH Technological University
- » Dedication: 16h/week
- » Schedule: at your own pace
- » Exams: online

Website: [www.techtitute.com/in/physiotherapy/postgraduate-certificate/thigh-ultrasound-physiotherapy](http://www.techtitute.com/in/physiotherapy/postgraduate-certificate/thigh-ultrasound-physiotherapy)

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# 01

# Introduction

In recent years, innovative ultrasound devices have been developed that, with a minimal margin of error, allow for the visualization of the extent of injuries in various areas of the thigh to optimize subsequent therapy and promote the rehabilitation of the affected individuals. Their use is essential for physiotherapists who wish to provide the most efficient services for their patients. In this way TECH has created this qualification, which will empower the professional to master the process of exploring musculoskeletal pathologies in the hamstrings or quadriceps, all through a 100% online format without the need for inconvenient trips to study centers.





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*Through this qualification, you will become proficient in the techniques used to explore pathologies in the hamstrings or quadriceps through ultrasound”*



Diagnostic techniques employed in the field of physiotherapy to detect and treat thigh pathologies have advanced greatly in recent times due to scientific progress. Modern ultrasound devices provide high-quality visual images to meticulously detect the extent of ailments in the adductors, hamstrings, or quadriceps, and swiftly tailor the treatment to their specifics. Considering the advantages these state-of-the-art devices offer in speeding up the recovery times of patients with injuries in this area, physiotherapists are obliged to use them with maximum proficiency in their daily practice.

In light of this circumstance, TECH has created this academic program through which professionals in this discipline will acquire the most up-to-date techniques for the ultrasound assessment of various thigh pathologies, aiming to address the most appropriate therapy for each of them. During 6 weeks of intensive learning, you will identify the most efficient exploration techniques for monitoring a hamstring injury or detecting a possible Morel-Lavallée seroma. Additionally, you will learn how to apply modern muscle contraction-relaxation tests in the thigh area.

Thanks to the 100% online delivery mode offered by this qualification, students will have the opportunity to combine excellent learning with their personal lives. Likewise, they will have access to educational materials available in formats such as explanatory videos and evaluative tests, providing education tailored to the academic requirements of each student.

This **Postgraduate Certificate in Thigh Ultrasound in Physiotherapy** contains the most complete and up-to-date scientific program on the market. The most important features include:

- The development of practical cases presented by experts in Physical Medicine and Rehabilitation and in Physiotherapy
- 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
- Practical exercises where self-assessment can be used to improve learning
- Its special emphasis on innovative methodologies
- 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



*The Postgraduate Certificate in Thigh Ultrasound in Physiotherapy will enable you to detect a Morel-Lavallée seroma in a patient who presents all the indications of it”*

“

*Enroll now and gain access to a program that offers the most up-to-date content in Thigh Ultrasound in Physiotherapy, designed by leading experts in Physical Medicine and Rehabilitation and Physiotherapy”*

The program's teaching staff includes professionals from the field who contribute their work experience to this educational program, as well as renowned 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 education programmed to learn in real situations.

This program is designed around Problem-Based Learning, whereby the professional must try to solve the different professional practice situations that arise during the academic year. For this purpose, the students will be assisted by an innovative interactive video system created by renowned and experienced experts.

*This program, being entirely online, can be completed from anywhere using a mobile device with an Internet connection.*

*Enhance your skills in Thigh Ultrasound in Physiotherapy to establish yourself as a leading professional in your field of practice.*



# 02 Objectives

The Postgraduate Certificate in Thigh Ultrasound in Physiotherapy has been developed with the premise of providing the professional in this discipline with the most advanced knowledge in the diagnosis and treatment of various Thigh pathologies using this method. Throughout this program, you will expand your capabilities in the examination of injuries and their subsequent therapy to position yourself at the forefront of your sector. You will achieve this through the pursuit of these general and specific objectives.





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*Increase your knowledge in a field that is constantly evolving to improve your professional performance with your patients”*



## General Objectives

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- ♦ Learn to locate the different anatomical structures of the region
- ♦ Identify pathologies for a correct treatment of ultrasound-guided rehabilitation medicine
- ♦ Define the limits of ultrasound
- ♦ Learn about the use of ultrasound in the framework of physiotherapist skills



*Master, through this qualification, the most efficient ultrasound-guided techniques for treating various Thigh pathologies”*





## Specific Objectives

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- ◆ Learn the echo anatomy of the different structures of the thigh
- ◆ Describe the normal examination of the structures of the anterior aspect of the Thigh
- ◆ Describe the normal examination of the structures of the lateral aspect of the Thigh
- ◆ Describe the normal examination of the structures of the posterior aspect of the Thigh
- ◆ Describe the normal examination of the structures of the medial aspect of the Thigh
- ◆ Identify the most common lesions of the Thigh, to ensure correct ultrasound-guided treatment and/or monitoring of their evolution
- ◆ Learn how to perform ultrasound-guided dynamic assessment tests for the Thigh
- ◆ Describe the least common pathologies that can affect the Thigh
- ◆ Identify the muscles of the Thigh and the most common muscular lesions

# 03

## Course Management

Given TECH's tireless commitment to preserving the exceptional educational quality inherent in all its programs, this program features a teaching staff composed of specialists in Physical Medicine and Rehabilitation, as well as physiotherapists with a high level of expertise in ultrasound, the result of years of work. Since these professionals are responsible for creating the educational content of this Postgraduate Certificate, the knowledge that students will acquire throughout it will be in line with the latest developments in this field.





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*Expand your knowledge under the guidance of the top experts in the use of cutting-edge ultrasound devices”*



## Management



### Dr. Castillo Martín, Juan Ignacio

- ♦ Head of Physical Medicine and Rehabilitation Department at 12 de Octubre University
- ♦ Doctor Specialist in Physical and Rehabilitation Medicine, Hospital Complex Ruber Juan Bravo
- ♦ Rehabilitation Physician at the Traffic Accidents Unit of the Ruber Juan Bravo Hospital Complex
- ♦ Rehabilitation Physician at Recoletas Cuenca Hospital
- ♦ Coordinator of continuing education of the Spanish Society of Cardiology in Exercise Testing with Oxygen Consumption
- ♦ Associate Professor in UCM of the Faculty of Medicine
- ♦ Teaching coordinator in continuing education courses at the Health Department of the Community of Madrid: Tertiary prevention in chronic cardiopathic patients. Cardiac Rehabilitation
- ♦ Degree in Medicine and Surgery. University of Salamanca
- ♦ Master's Degree in Cardiac Rehabilitation. SEC-UNED
- ♦ Master in and Disability Assessment UAM
- ♦ Master in Child Disability. UCM
- ♦ PhD in Neuroscience. University of Salamanca
- ♦ Member of: Spanish Society of Pediatric Cardiology

## Professors

### Dr. Santiago Nuño, Fernando

- ◆ Physiotherapist, Osteopath, Podiatrist and Co-Director of Nupofis Clinic
- ◆ Physiotherapist and podiatrist at Armstrong International Clinic
- ◆ Orthopedist at Ortoaccesible
- ◆ Professor of Musculoskeletal Ultrasound and Guided Infiltrations at UCM and UEM
- ◆ Doctor in Podiatry from UDC
- ◆ Specialized physiotherapist in Traumatology, Neurology, and Sports Injury Rehabilitation at Armstrong International Clinic
- ◆ Own Master's Degree in Advanced Clinical Podiatry from CEU - UCH
- ◆ Own Master's Degree in Clinical Management, Medical and Healthcare Direction from TECH- UCH
- ◆ Own Master's Degree in Musculoskeletal Ultrasound from CEU-UCH
- ◆ Master's Degree in Manual Therapy Specialist from UCM
- ◆ Online Master's Degree in Podiatry Research from URJC
- ◆ Master's Degree in Orthopedic Product Specialist and Supervisor from UCM

### Dr. Casado Hernández, Israel

- ◆ Podiatrist and Podiatry Researcher
- ◆ Director of Vitalpie
- ◆ Podiatrist for youth football clubs such as Getafe CF and AD Alcorcón
- ◆ Associate Professor in university studies
- ◆ Author of over 20 scientific articles and 7 book chapters
- ◆ Doctor in Epidemiology and Clinical Research in Health Sciences from URJC
- ◆ Degree in Podiatric Medicine from Complutense University of Madrid
- ◆ Master's Degree in Podiatry Research from URJC

### Mr. García Expósito, Sebastián

- ◆ Expert in Radiodiagnostic Applications and Techniques
- ◆ Radiodiagnostic Technician at the Women's Center of Sanitas
- ◆ Radiodiagnostic Technician at Hospital de la Zarzuela
- ◆ Graduate in Production of Bioimages from UNLZ

### Ms. Moreno, Cristina Elvira

- ◆ Physiotherapist and Musculoskeletal Ultrasound Expert
- ◆ Physiotherapist at Nupofis Clinic
- ◆ Physiotherapist at Clínica Fisios Islas21
- ◆ Physiotherapist at Más Fisio Clinic
- ◆ Physiotherapist at the Parkinson Association Madrid
- ◆ Graduate in Physiotherapy from UCM
- ◆ Master's Degree in Musculoskeletal Ultrasound in Physiotherapy from CEU San Pablo University

### Mr. Nieri, Martín Alejandro

- ◆ Diagnostic Imaging Technician Expert in Musculoskeletal Ultrasound
- ◆ Diagnostic Imaging Technician at the Son Espases University Hospital
- ◆ CEO of Ultrasound Assistance & Teleradiology Service SL
- ◆ Director of the Quality Control Department in Ultrasound at Ultrasound Assistance & Teleradiology Service SL
- ◆ Freelance Diagnostic Imaging Technician
- ◆ Teacher in medical training courses
- ◆ Participation in Ultrasound training courses

**Dr. Pérez Calonge, Juan José**

- Podiatrist Expert in Integral Foot Surgery
- Podiatrist at Podológica Gayarre Clinic
- Co-Author of the article Direct Examination Technique of Onychomycosis using Potassium Hydroxide Microscopy
- Doctor of Health Sciences from UPNA
- Master's Degree Official in Health Assessment from UCM
- Official Master's Degree in Advanced Podiatry from CEU
- Expert Podiatric Surgery from UCM
- Course in Infiltration of the Foot by UCM

**Ms. Sánchez Marcos, Julia**

- Physiotherapist, Osteopath, and Pilates Instructor at Clínica Nupofis
- Physiotherapist and Osteopath at Isabel Amoedo Physiotherapy Clinic
- Physiotherapist at Vithas Nuestra Señora de Fátima Hospital
- Physiotherapist at ASPODES-FEAPS
- Physiotherapist at Fisiosalud Clinic
- Master's Degree in Electrotherapy from CEU- UCH
- Expert in Sonographic Anatomy of the Musculoskeletal System from European University
- Neurodynamics Course by Zerapi Advanced Physiotherapy
- Percutaneous Therapeutic Electrolysis (EPTE) Course
- Myofascial and Articular Neurodynamic Fibrolysis "Hooks" Course by Instema
- Diathermy Course by Helios in Electromedicine





### **Mr. Santiago Nuño, José Ángel**

- ◆ Physiotherapist, Osteopath, Dietitian, Nutritionist, and Co-director of Nupofis Clinic
- ◆ Dietitian and nutritionist in various physiological situations at Medicadiet
- ◆ Postgraduate Certificate in Physiotherapy from CEU San Pablo University
- ◆ Postgraduate Certificate in Human Nutrition and Dietetics from CEU San Pablo University
- ◆ Postgraduate Specialist in Food Exchange System for Diet Preparation and Menu Planning from the UPNA
- ◆ Physiotherapist specializing in Traumatology, Neurology, and Sports Injury Rehabilitation at Armstrong Internacional Clinic
- ◆ Master's Degree in Sports Physiotherapy Specialist from UCM
- ◆ Expert in Traditional Chinese Medicine and Acupuncture for Physiotherapists at UCLM

### **Dr. Teijeiro, Javier**

- ◆ Director and physiotherapist at Atlas Physiotherapy Clinic
- ◆ Physiotherapist and Technical Director of the Physiotherapy Service at the San Pablo and San Lázaro Care Center in Mondoñedo
- ◆ Regional Delegate of the Spanish Society of Ultrasound and Physiotherapy
- ◆ Physiotherapist at the Dinán Viveiro Clinic
- ◆ Ph.D. in Health, Disability, Dependence, and Well-being
- ◆ Master's Degree in Natural Medicine and its Applications in Primary Care from the USC
- ◆ Master's Degree in Pharmacology for Physiotherapists from the University of Valencia
- ◆ Official Master's Degree in Disability and Dependence Intervention from the UDC
- ◆ Master's Degree in Diagnostic Imaging from the University of Valencia
- ◆ Postgraduate Diploma in Musculoskeletal Ultrasound by UFV

# 04

## Structure and Content

The syllabus of this program is designed so that students will have access to the content that will enable them to enhance their knowledge in the diagnosis and treatment of injuries occurring in various areas of the Thigh through ultrasound. Additionally, these educational resources available throughout your academic experience are presented in a wide range of textual and multimedia formats. Thanks to this, and the 100% online methodology of this Postgraduate Certificate, you will have access of 24 hours to these comprehensive materials to optimize your learning.



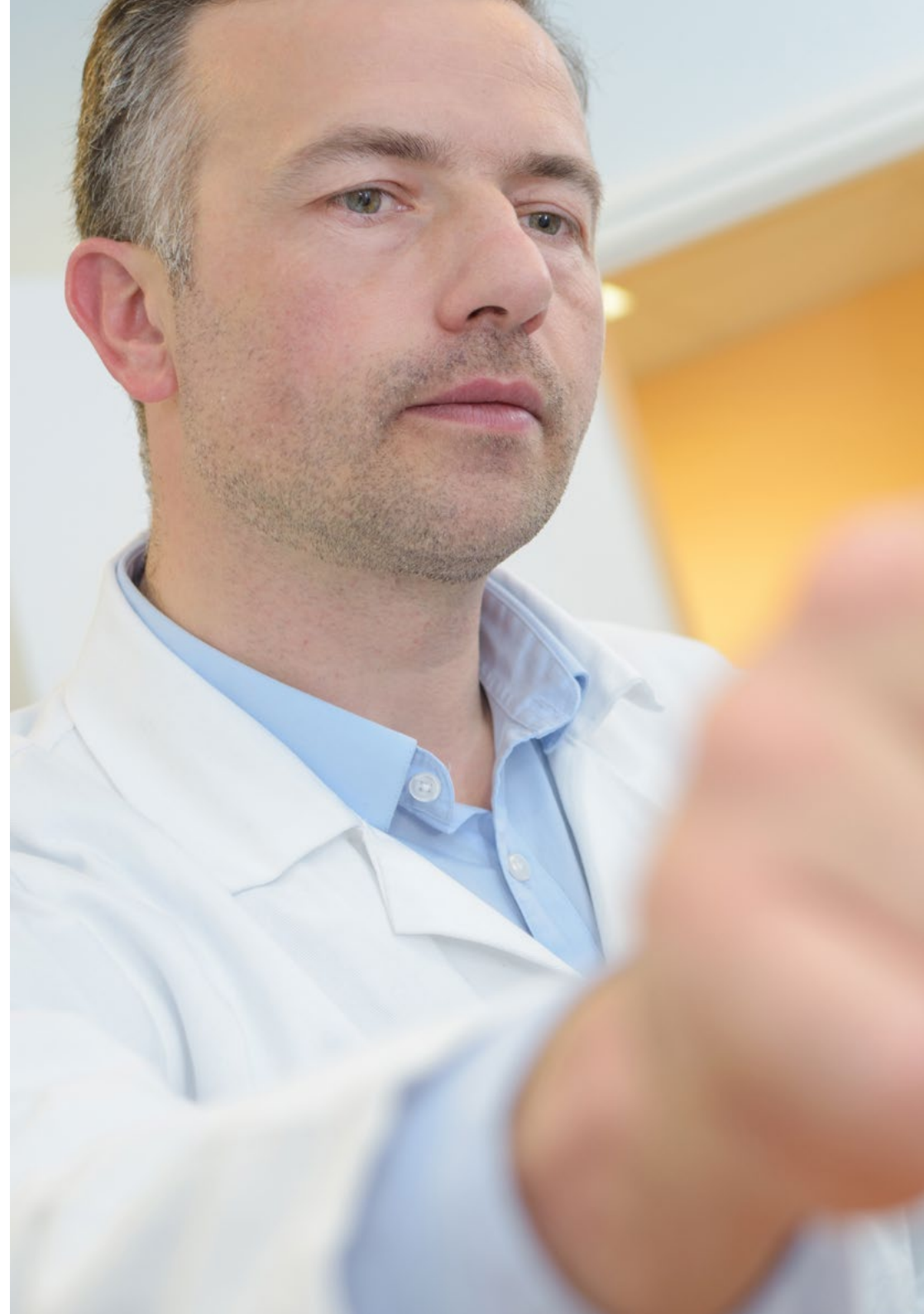


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*The Postgraduate Certificate in Thigh Ultrasound in Physiotherapy offers a 100% online methodology that allows you to balance your learning with your personal and professional life”*

## Module 1. Ultrasound of the Lower Limb: Thigh

- 1.1. Introduction
- 1.2. Normal Sonoanatomy of the Thigh
- 1.3. Examination of the Anterior Aspect Structures
- 1.4. Examination of the Lateral Aspect Structures
- 1.5. Examination of the Medial Aspect Structures
- 1.6. Examination of the Posterior Aspect Structures
- 1.7. Thigh Pathology
- 1.8. Most Common Tendon Pathology
- 1.9. Other Thigh Pathologies
- 1.10. Dynamic Tests on Thigh
- 1.11. In Focus Video
- 1.12. Clinical Cases





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*Choose to enroll in this program now to have access to the most up-to-date educational materials in **Thigh Ultrasound in Physiotherapy**”*

# 05 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.







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*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, students will face multiple simulated clinical cases, based on real patients, in which they will have to do research, establish hypotheses, and ultimately resolve the situation. There is an abundance of scientific evidence on the effectiveness of the method. Physiotherapists/kinesiologists learn better, faster, and more sustainably over time.

*With TECH you will experience a way of learning that is shaking the foundations of traditional universities around the world.*



According to Dr. Gérvas, the clinical case is the annotated presentation of a patient, or group of patients, which becomes a "case", an example or model that illustrates some peculiar clinical component, either because of its teaching power or because of its uniqueness or rarity. It is essential that the case is based on current professional life, trying to recreate the real conditions of professional physiotherapy 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. Physiotherapists/kinesiologists who follow this method not only grasp concepts, but also develop their mental capacity, by evaluating real situations and applying their knowledge.
2. The learning process has a clear focus on practical skills that allow the physiotherapist/kinesiologist 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.



## 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.



*The physiotherapist/kinesiologist will learn through real cases and by solving 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 we trained more than 65,000 physiotherapists/kinesiologists with unprecedented success in all clinical specialties, regardless of the workload. Our pedagogical methodology is developed in a highly competitive environment, with a university student body with a strong socioeconomic profile and an average age of 43.5 years old.

*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 our 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 really 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.



#### Physiotherapy Techniques and Procedures on Video

TECH brings students closer to the latest techniques, the latest educational advances and to the forefront of current Physiotherapy techniques and procedures. 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 them as many times as you want.



#### 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 unique multimedia content presentation training system 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 on the usefulness of learning by observing experts. The system known as 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.



06

# Certificate

The Postgraduate Certificate in Thigh Ultrasound in Physiotherapy guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate issued by TECH Technological University.





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

This **Postgraduate Certificate in Thigh Ultrasound in Physiotherapy** contains the most complete and up-to-date scientific program on the market.

After the student has passed the assessments, they will receive their corresponding **Postgraduate Certificate** issued by **TECH Technological University** via tracked delivery\*.

The certificate issued by **TECH Technological University** will reflect the qualification obtained in the Postgraduate Certificate, and meets the requirements commonly demanded by labor exchanges, competitive examinations, and professional career evaluation committees.

Title: **Postgraduate Certificate in Thigh Ultrasound in Physiotherapy**

Official N° of Hours: **150 h.**



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



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



**Postgraduate Certificate**  
Thigh Ultrasound in  
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