



Postgraduate Diploma

Neurological Physiotherapy in Multiple Sclerosis, ALS and Huntington's Disease

» Modality: online

» Duration: 6 months

» Certificate: TECH Global University

» Credits: 18 ECTS

» Schedule: at your own pace

» Exams: online

Website: www.techtitute.com/us/physiotherapy/postgraduate-diploma/postgraduate-diploma-neurological-physiotherapy-multiple-sclerosis-als-huntington-disease

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tech 06 | Introduction

The Postgraduate Diploma in Neurological Physiotherapy in Multiple Sclerosis, ALS and Huntington's Disease has been designed to complement the training of physiotherapy professionals who work with people with neurodegenerative diseases, so that they acquire superior training that will allow them to apply the most advanced techniques in the field of rehabilitation, specific to each of these diseases.

Accordingly, the program contains a syllabus that delves into multiple sclerosis, covering the pathophysiology of demyelination of the white matter and the appearance of plaques that will help the physiotherapist to differentiate the clinical manifestations depending on each lesion: pyramidal, cerebellar, sensory, etc. Strategies to deal with spasticity and its consequences will also be analyzed; the latest advances in training programs for readaptation to effort, balance and coordination re-education will be presented.

There is also a section to study Amyotrophic Lateral Sclerosis (ALS), in which this disease will be described by explaining the symptoms and signs of involvement of the first and second motor neuron so that the physiotherapist can identify them. Once these concepts have been focused, the symptoms in the different phases of the disease will be analyzed: weakness, fasciculations, respiratory diseases, spasticity, pain, dysphagia, dysarthria, etc.

Finally, on Huntington's disease, the anatomical areas susceptible to lesions will be detailed: basal ganglia (striatum, caudate nucleus and pale globe) as well as the affected area of the cerebral cortex. As a result, the student will gain knowledge to promote and increase the ability to use complex brain functions such as attention, memory, understanding, integration of what was learned, judgment, problem solving and organization of time.

In short, TECH has set out to create contents of the highest teaching and educational quality that will turn students into successful professionals, following the highest quality standards in teaching at an international level. Therefore, TECH presents this program with comprehensive content that will help them become elite physiotherapists.

This Postgraduate Diploma in Neurological Physiotherapy in Multiple Sclerosis, ELA and Huntington's Disease contains the most complete and up-to-date scientific program on the market. The most important features include:

- Practical case studies presented by specialists in Neurological Physiotherapy
- The graphic, schematic and practical contents of the course are designed to provide all the essential information required for professional practice.
- Exercises where the self-assessment process can be carried out to improve learning.
- · Algorithm-based interactive learning system for decisionmaking.
- Special emphasis on innovative methodologies in Neurological Physiotherapy
- 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



Immerse yourself in the study of this high-level Postgraduate Diploma and improve your skills in therapies for people with degenerative diseases"



This Postgraduate Diploma is the best investment you can make when selecting a refresher program, for two reasons: in addition to updating your knowledge in Neurological Physiotherapy, you will obtain a qualification endorsed by TECH"

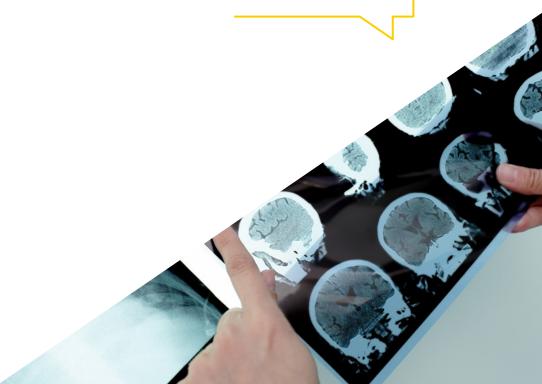
It includes, in its teaching staff, professionals belonging to the field of physiotherapy, who pour into this training the experience of their work, in addition to recognized specialists of reference societies and prestigious universities.

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 Physiotherapist must try to solve the different professional practice situations that arise throughout the academic year. For this purpose, the professional will be assisted by an innovative interactive video system created by renowned and experienced experts in Neurological Physiotherapy in Multiple Sclerosis, ALS and Huntington.

This Postgraduate Diploma offers training in simulated environments, which provides an immersive learning experience designed to train for real-life situations.

A 100% online program that will allow you to balance your studies with your professional work while expanding your knowledge in this field.







tech 10 | Objectives



General Objectives

- Acquire new knowledge in neuroscience applied to neurodegenerative diseases
- Promote a critical attitude that favors clinical practice based on the most recent scientific evidence and clinical reasoning
- Motivate physiotherapists to specialize in the field of neurological physiotherapy
- Provide comprehensive treatment plans



The specific training in Neurological Physiotherapy will allow to achieve great advances in people with degenerative diseases"





Specific Objectives

Module 1. Multiple Sclerosis

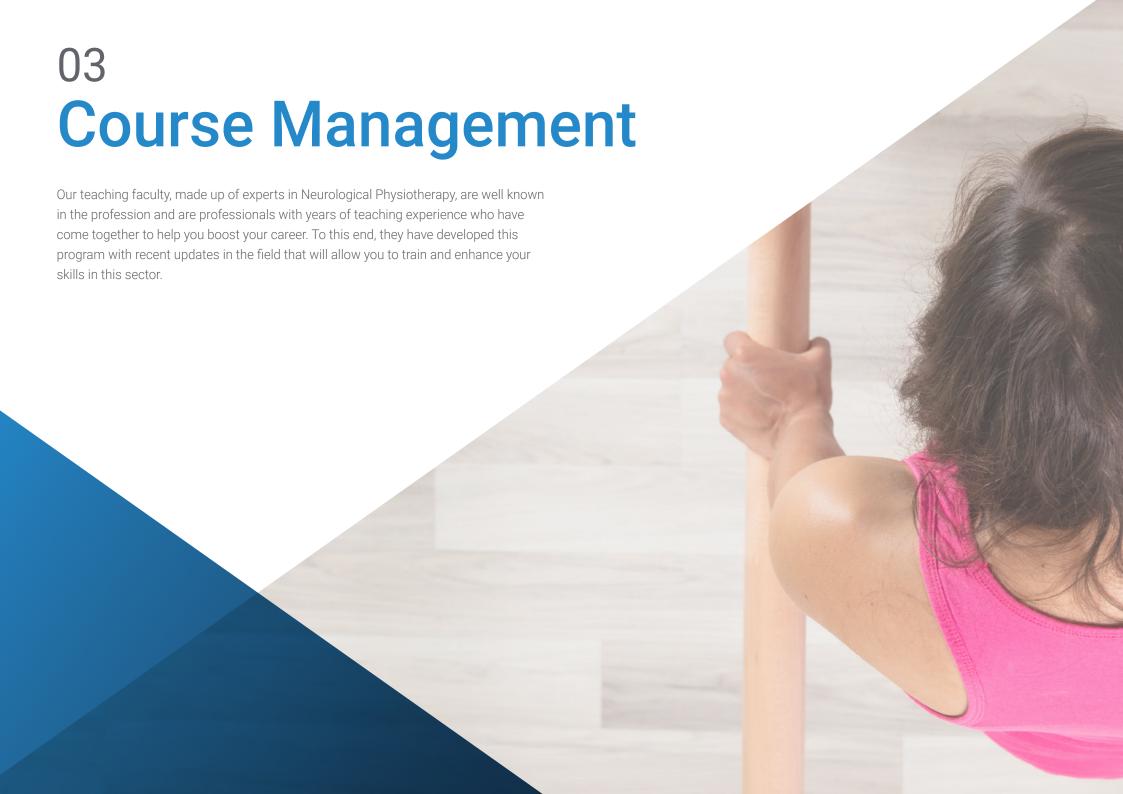
- Delve into the anatomical and functional basis of the nervous system involved in Multiple Sclerosis
- Identify the various symptoms and clinical manifestations according to the area of involvement in Multiple Sclerosis
- Acquire skills for the treatment of spasticity
- Train students in the analysis of movement, using explanatory videos
- Elaborate readaptation programs to effort, balance and coordination re-education through case studies

Module 2. Amyotrophic Lateral Sclerosis

- Delve into the anatomical and functional basis of the nervous system involved in Amyotrophic Lateral Sclerosis
- Identify the various symptoms and clinical manifestations according to the area of involvement in Amyotrophic Lateral Sclerosis
- Learn to identify and address swallowing disorders, respiratory insufficiency, urinary incontinence, etc.
- Detect pain and discover the different ways to approach it
- Develop working methods and new trends in physiotherapy for patients with this disease, through case studies

Module 3. Huntington's Disease

- Delve into the anatomical and functional basis of the nervous system involved in Huntington's disease
- Identify the various symptoms and clinical manifestations according to the area of involvement in Huntington's disease
- Recognize the physiotherapeutic treatment implications of the different cognitive domains that are either injured or intact in movement impairment
- Develop working methods and new trends in physiotherapy for patients with this disease, through case studies





tech 14 | Course Management

Management



Mr. Pérez Redondo, José María

- Physiotherapist specialized in Neurology and Neurosurgery in acute and critical patients
- Degree in Physiotherapy from the European University of Madrid
- Diploma in Physiotherapy from the School of Physiotherapy, Podiatry and Nursing at the Complutense University of Madrid
- 5 levels of the Postgraduate Specialization Course in Osteopathic Manual Physical Therapy, organized by the Department of Human Anatomy and Embryology, Faculty of Medicine, University of Alcalá de Henares
- Course on Radiology and Imaging Techniques for Physiotherapists and Occupational Therapists, organized by Fuenlabrada Hospital
- Neurodynamic Mobilization Course for Physiotherapists, organized by Fuenlabrada Hospital
- Course on Functional Re-education in Parkinson's Disease, organized by the Federation of Health and Social and Health Sectors of Comisiones Obreras
- President of the Scientific Committee for the II National Conference on Myofascial Pain and Dry Needling

Professors

Ms. Hermida Rama, Josefa

- Physiotherapist in the Rehabilitation Department, San Carlos Clinical Hospital, Madrid
- Diploma in Physiotherapy from the Complutense University of Madrid
- Graduate in Physiotherapy from the Faculty of Nursing, Physiotherapy and Podiatry at the Complutense University of Madrid
- Associate Professor of Clinical Stays of the Faculty of Nursing, Physiotherapy and Podiatry
- Expert in Neurological Physiotherapy, Madrid. Expert in Nursing, Physiotherapy and Podology UCM
- Advanced Course Basic Study for Arm and Hand Function Recovery in Adult Neurological Patients by the Bobath Concept

Ms. López-Hazas Jiménez, Gemma

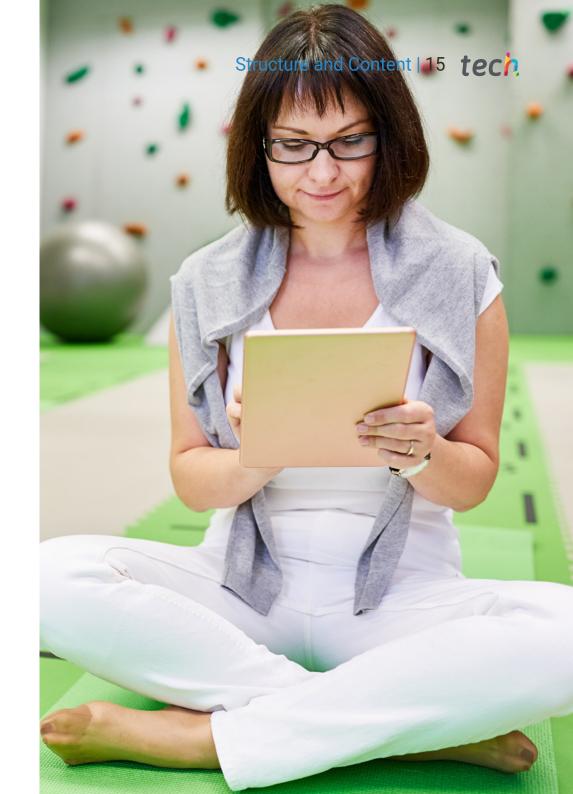
- Physiotherapist Specializing in Neurology
- Neurological Physiotherapist at the Multiple Sclerosis Association of Fuenlabreña
- Neurological Physiotherapist at the AMAS Social Foundation
- Internship tutor for students of the Degree in Physiotherapy at the CEU San Pablo University
- Degree in Physiotherapy at the University San Rafael Nebrija
- Master's Degree in Motor Neurocontrol by Rey Juan Carlos Univeristy
- Expert in Neurological Physiotherapy by the Complutense University of Madrid

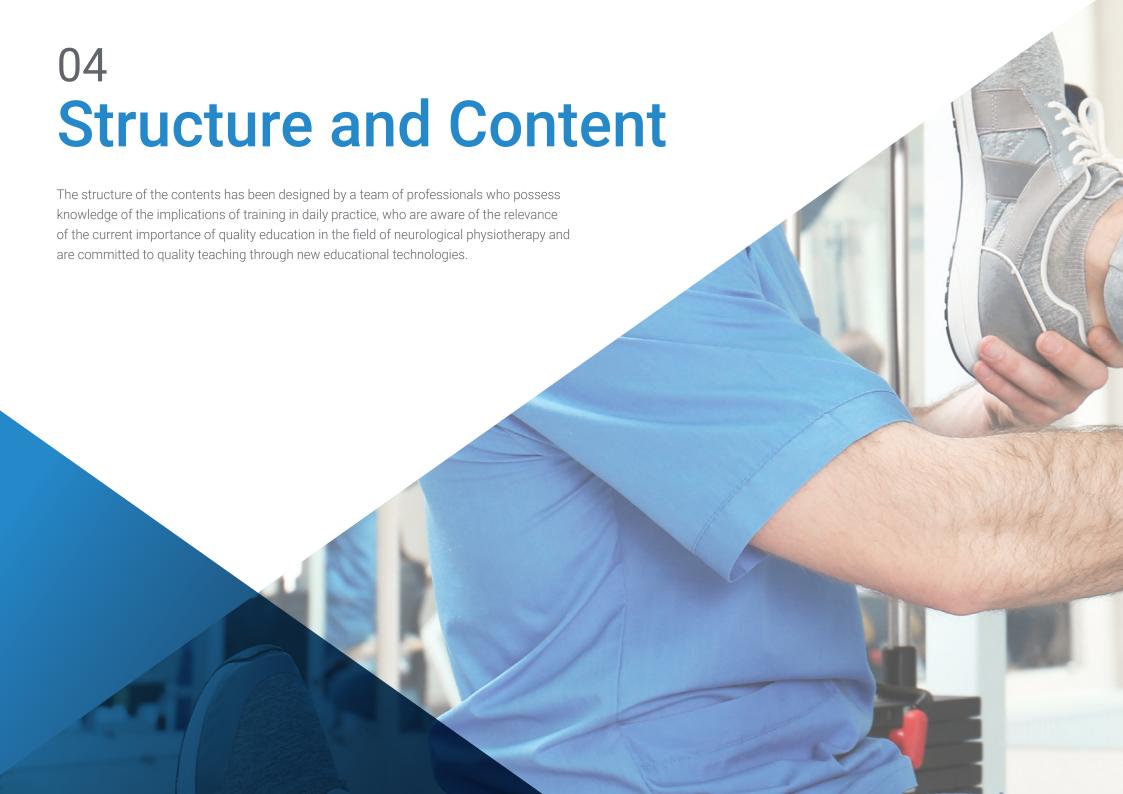
Ms. González Villarejo, Lara

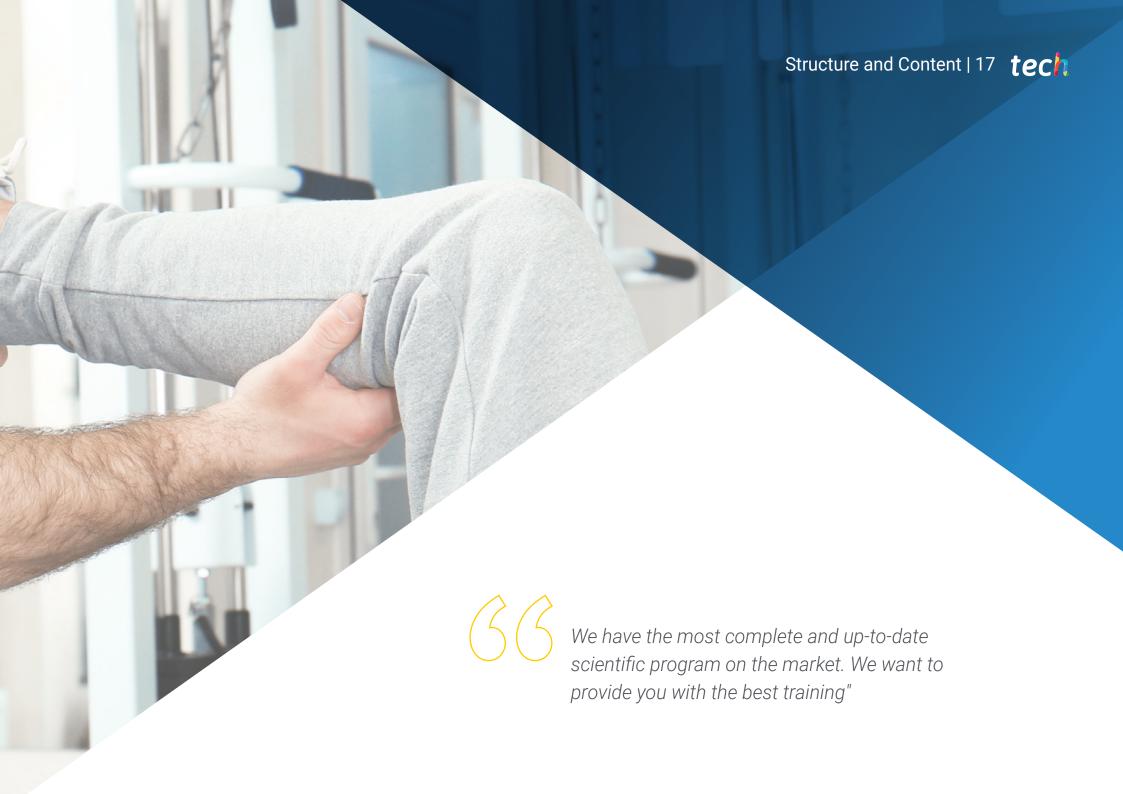
- Physiotherapist at Crene
- Professor at the Francisco de Vitoria University
- Graduated in Physiotherapy at the UAH



A unique, key, and decisive training experience to boost your professional development"







tech 18 | Structure and Content

Module 1. Multiple Sclerosis

- 1.1. Introduction
 - 1.1.1. Anatomy
 - 1.1.2. Physiology
 - 1.1.3. Classification
- 1.2. Epidemiology
- 1.3. Etiology
 - 1.3.1. Transmission Mode
 - 1.3.2. Frequency
 - 1.3.3. Age of Onset
- 1.4. Evolution
- 1.5. Prognostic Factors
- 1.6. Evaluation/Diagnosis
 - 1.6.1. Clinical Manifestations
 - 1.6.2. Diagnostic Imaging
 - 1.6.3. Neurological Examination
 - 1.6.4. Neurological Assessment Scales
- 1.7. Treatment
 - 1.7.1. Medical/Surgical Treatments
 - 1.7.2. Physiotherapy
 - 1.7.3. Occupational Therapy, Speech Therapy and Neuropsychology
- 1.8. Orthopedics
 - 1.8.1. Support Products
 - 1.8.2. Orthoses
- 1.9. Readaptation
 - 1.9.1. Social Aspects/Support
 - 1.9.2. Comprehensive Care for Patients, Families and Caregivers
- 1.10. Early Prevention and Detection



Module 2. Amyotrophic Lateral Sclerosis

- 2.1. Introduction
 - 2.1.1. Anatomy
 - 2.1.2. Physiology
 - 2.1.3. Classification
- 2.2. Epidemiology
- 2.3. Etiology
 - 2.3.1. Transmission Mode
 - 2.3.2. Frequency
 - 2.3.3. Starting Age
- 2.4. Evolution
- 2.5. Prognostic Factors
- 2.6. Evaluation/Diagnosis
 - 2.6.1. Clinical Manifestations
 - 2.6.2. Diagnostic Imaging
 - 2.6.3. Neurological Examination
 - 2.6.4. Neurological Assessment Scales
- 2.7. Treatment
 - 2.7.1. Medical/Surgical Treatments
 - 2.7.2. Physiotherapy
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- 2.8. Orthopedics
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 - 2.8.2. Orthoses
- 2.9. Readaptation
 - 2.9.1. Social Aspects/Support
 - 2.9.2. Comprehensive Care for Patients, Families and Caregivers
- 2.10. Early Prevention and Detection

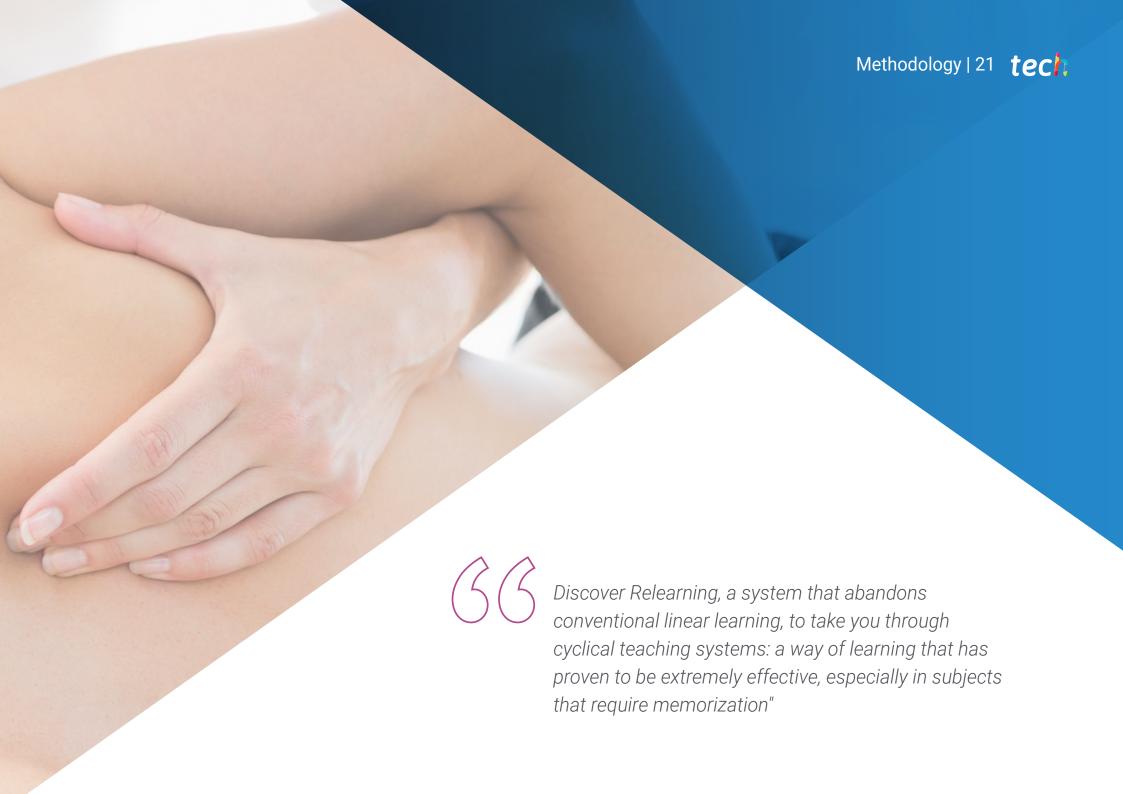
Module 3. Huntington's Disease

- 3.1. Introduction
 - 3.1.1. Anatomy
 - 3.1.2. Physiology
 - 3.1.3. Classification
- 3.2. Epidemiology
- 3.3. Etiology
 - 3.3.1. Transmission Mode
 - 3.3.2. Frequency
 - 3.3.3. Starting Age
- 3.4. Evolution
- 3.5. Prognostic Factors
- 3.6. Evaluation/Diagnosis
 - 3.6.1. Clinical Manifestations
 - 3.6.2. Diagnostic Imaging
 - 3.6.3. Neurological Examination
 - 3.6.4. Neurological Assessment Scales
- 3.7. Treatment
 - 3.7.1. Medical/Surgical Treatments
 - 3.7.2. Physiotherapy
 - 3.7.3. Occupational Therapy, Speech Therapy and Neuropsychology.
- 3.8. Orthopedics
 - 3.8.1. Support Products
 - 3.8.2. Orthoses
- 3.9. Readaptation
 - 3.9.1. Social Aspects/Support
 - 3.9.2. Comprehensive Care for Patients, Families and Caregivers
- 3.10. Early Prevention and Detection



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.

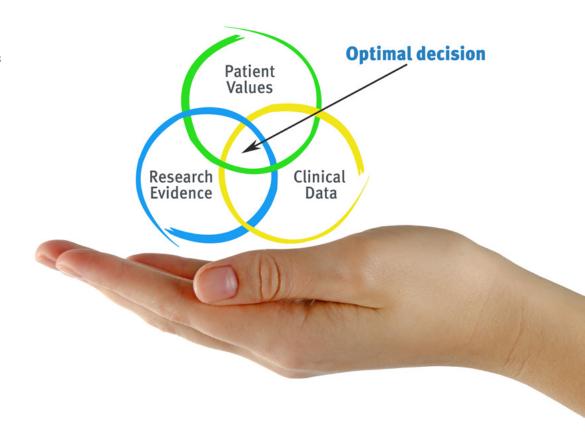


tech 22 | Methodology

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.



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.



Methodology | 25 tech

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.

tech 26 | Methodology

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

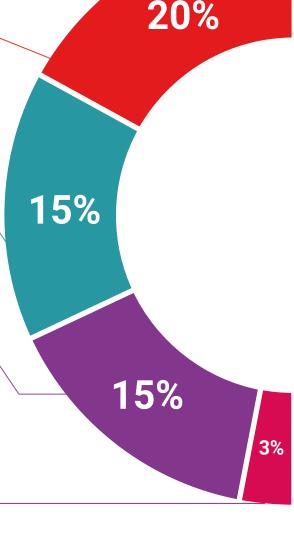
TECH brings students closer to the latest techniques, the latest educational advances and to the forefront of current Physiotherapy techniques and procedures. All of this in direct contact with students and explained in detail so as to aid their assimilation and understanding. And best of all, you can 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.



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.

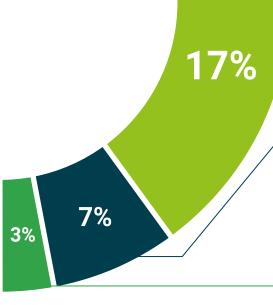
The system known as Learning from an Expert strengthens knowledge and memory, and generates confidence in future difficult decisions.



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.





20%





tech 30 | Certificate

This private qualification will allow you to obtain a **Postgraduate Diploma in Neurological Physiotherapy in Multiple Sclerosis, ALS and Huntington's Disease** 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 Diploma in Neurological Physiotherapy in Multiple Sclerosis, ALS and Huntington's Disease

Modality: online

Duration: 6 months

Accreditation: 18 ECTS



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

Postgraduate Diploma in Neurological Physiotherapy in Multiple Sclerosis, ALS and Huntington's Disease

This is a private qualification of 540 hours of duration equivalent to 18 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

augustantee

technology

community

future

future

people

technology

technology

technology

Postgraduate Diploma

Neurological Physiotherapy in Multiple Sclerosis, ALS and Huntington's Disease

- » Modality: online
- » Duration: 6 months
- » Certificate: TECH Global University
- » Credits: 18 ECTS
- » Schedule: at your own pace
- » Exams: online

