Postgraduate Diploma

Neurological Physiotherapy in Parkinson's, Alzheimer's and Cerebellar Degenerative Diseases

tech global university

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Postgraduate Diploma

Neurological Physiotherapy in Parkinson's, Alzheimer's and Cerebellar Degenerative Diseases

- » 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-parkinson-alzheimer-cerebellar-degenerative-diseases**

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01

Introduction

The student will learn about the benefits that Neurological Physiotherapy can bring to patients with Parkinson's, Alzheimer's or Cerebellar Degenerative Diseases and get up to date with the latest techniques in this field, which will allow them to advance in their daily practice and, above all, improve the health and quality of life of these people. For this purpose, TECH offers the opportunity to train with the best teaching staff in the current panorama.

> *Specialize in Neurological Physiotherapy and offer more personalized treatments to people with Parkinson's, Alzheimer's and Cerebellar Degenerative Diseases"*

Neurodegenerative diseases can cause various symptoms in patients, such as problems with movement, balance, breathing, speaking, or heart functions. These types of diseases are progressive in nature, meaning that patients display a reduction in functional capacity, and therefore suffer from reduced personal autonomy, making it difficult to perform daily tasks. As a result, physical dependence on a caregiver or support device increases.

In these cases, physiotherapists are indispensable members of the multidisciplinary teams that treat people with neurodegenerative diseases on a daily basis. In order to enhance their training, TECH has designed this specific program on neurological physiotherapy in patients with Parkinson's, Alzheimer's or Cerebellar Degenerative Diseases.

The teaching staff of this Postgraduate Certificate is composed of specialists in the areas of intervention of each pathology, from prestigious health centers and universities, sensitized to continuous quality training based on scientific evidence to provide a holistic approach to the patient with neurodegenerative disease, and committed to quality teaching through new educational technologies. Learning is done through real cases, guided by an expert, and continuous evaluation through assessment and self assessment activities and exercises.

In short, TECH has set out to create high quality educational content 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 neurological physiotherapists.

This **Postgraduate Diploma in Neurological Physiotherapy in Parkinson's, Alzheimer's and Cerebellar Degenerative Diseases** 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 specialization required for professional practice
- Exercises where the self assessment process can be carried out to improve learning.
- Algorithm-based interactive learning system for decision-making
- 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 providing treatment to 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"

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 will allow you to balance your studies with your professional work while increasing your knowledge in this field.

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 Parkinson's, Alzheimer's and Cerebellar Degenerative Diseases.

02
Objectives

The main objective of this program is to provide theoretical and practical learning, so that the physiotherapist can master neurological rehabilitation for people with degenerative diseases in a way that is both practical and rigorous.

"

Our goal is to achieve academic excellence and help you achieve professional success. Don't hesitate any longer and join us"

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. Parkinson's Disease and Other Related Neurodegenerative Diseases (Progressive Supranuclear Palsy, Corticobasal Degeneration, Multiple Systemic Atrophy)

- Discover the anatomical and functional bases of the nervous system
- Identify the various symptoms and clinical manifestations according to the area of involvement in Parkinson's disease and other related neurodegenerative diseases
- Train students with a more extensive knowledge of postural physiology, all through the use of new technologies
- Elaborate readaptation programs to effort, balance and coordination re-education through case studies
- Define and explain the use of different assistive devices for daily activities

Module 2. Alzheimer's Disease, and Other Neurodegenerative Dementias: Frontotemporal Dementia, Lewy Body Dementia, Vascular Dementia

- Understand in depth the relationship between cortical atrophy in different areas (frontal, temporal, parietal and occipital) with aphasia, apraxias and agnosias
- Identify the various symptoms and clinical manifestations according to the area of involvement
- Delve deeper into and differentiate the different psychiatric manifestations
- Define strategies to access disoriented and/or disconnected patients
- Describe strategies to promote caregiver treatment adherence
- Develop the role of physical therapists in managing and treating dementia patients

Module 3. Cerebellar Degenerative Diseases: Hereditary Ataxias: Friedreich's Ataxia and Machado-Joseph Ataxia

- Conceptualize the functions of the cerebellum and its main clinical manifestation: ataxia
- Design therapeutic exercise programs to improve coordination and balance
- Design the necessary strategies for autonomous gait acquisition
- Apply the knowledge of postural physiology, using explanatory videos and through practice

03
Course Management

Our teachers, made up of experts in Neurological Physiotherapy, are well known in the profession and are professionals with years of teaching experience who have come together to help you boost your career. To this end, they have developed this program with recent updates in the field that will allow you to train and increase your skills in this sector.

Learn from the best professionals and become a successful professional yourself"

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. University School of 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 Moreno, Beatriz

- Physiotherapist at the Parkinson's Association of Toledo
- Physiotherapist at Fisio&Med Medical Center
- Physiotherapist Assistant at Villanazules Hotel Hípica Spa
- Pilates Instructor at Mat-Fitness and Aerobic Toledo
- Degree in Physiotherapy by the University of Castilla-La Mancha
- Specialist in Conservative and Invasive Physical Therapy of Myofascial Pain Syndrome and Fibromyalgia
- Certificate of Diagnosis and Conservative Treatment and Superficial Dry Needling of Myofascial Pain Syndrome
- Certificate of Resources and Action Protocols in Support and Social and Health Care for people with disabilities

Mr. Navarro Quirós, Javier

- Collaborating physiotherapist in several centers for patients with brain damage
- Degree in Physiotherapy from the European University of Madrid
- Degree in Physical Activity and Sport Sciences from the European University of Madrid
- Master's Degree in Neurological Physiotherapy in Adult Patients from the European University of Madrid

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

04

Structure and Content

The structure of the contents has been designed by a team of professionals knowledgeable about the implications of training in daily practice, aware of the relevance of the current importance of quality education in the field of neurological physiotherapy, and committed to quality teaching through new educational technologies.

We have the most complete and up to date scientific program on the market. We want to provide you with the best training"

Module 1. Parkinson's Disease and Other Related Neurodegenerative Diseases (Progressive Supranuclear Palsy, Corticobasal Degeneration, Multiple Systemic Atrophy)

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. Alzheimer's Disease, and Other Neurodegenerative Dementias: Frontotemporal Dementia, Lewy Body Dementia, Vascular Dementia

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
    2.7.3. Occupational Therapy, Speech Therapy and Neuropsychology
2.8. Orthopedics
    2.8.1. Support Products
    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. Cerebellar Degenerative Diseases: Hereditary Ataxias: Friedreich's Ataxia and Machado-Joseph Ataxia

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

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.

"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.
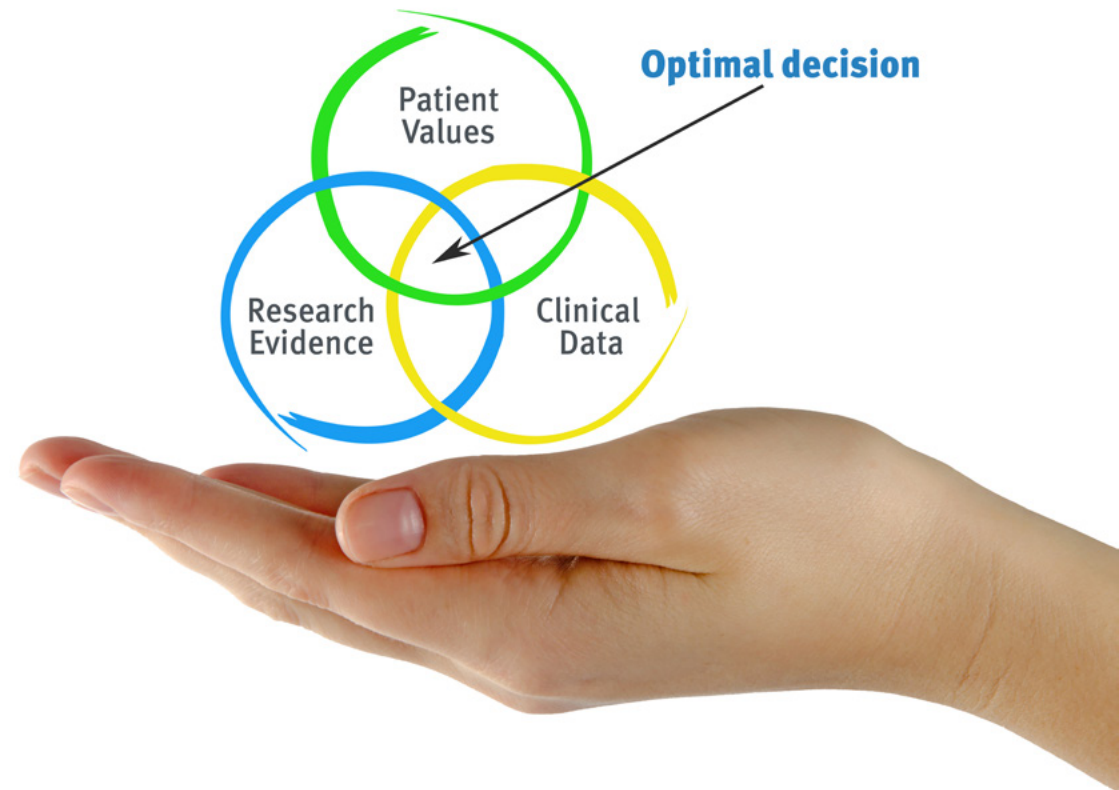
According to Dr. Gérvas, the clinical case is the annotated presentation of a patient, or group of patients, which becomes a "case", an example or model that illustrates some peculiar clinical component, either because of its teaching power or because of its uniqueness or rarity. It is essential that the case is based on current professional life, trying to recreate the real conditions of professional physiotherapy practice.

"

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.

01 learning from evidence

02 relearning from evidence

03 testing

04 learning from an expert

05 neurocognitive context dependent learning

06 Von-Restorff effect

07 case based learning through storytelling

08 competencies testing (retesting)

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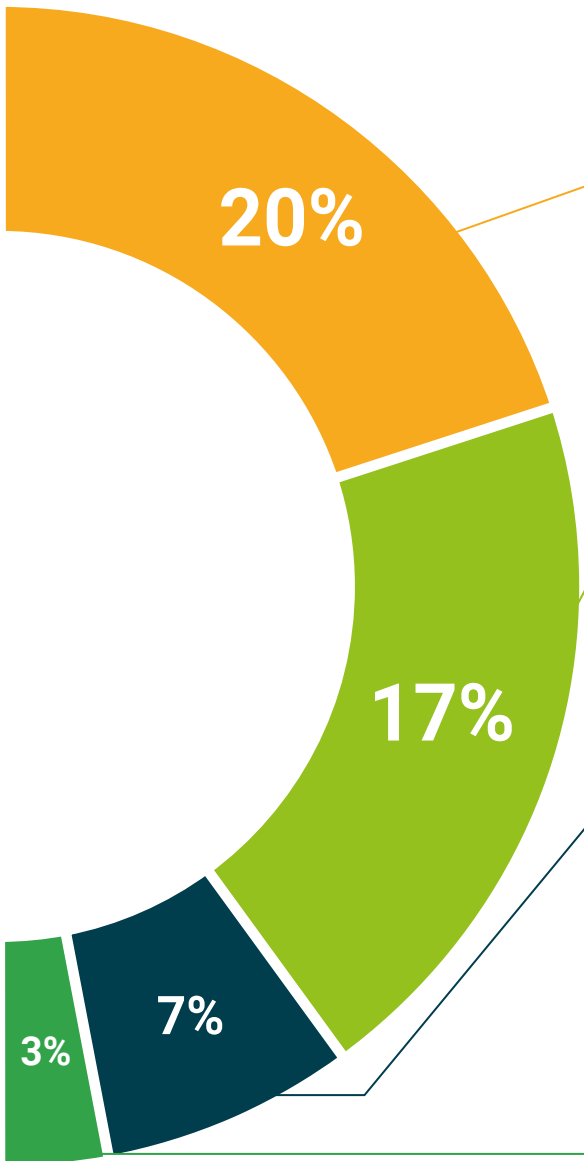
This unique multimedia content presentation training system was awarded by Microsoft as a "European Success Story".

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.

20%

15%

15%

3%

20%

17%

7%

3%

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 Diploma in Neurological Physiotherapy in Parkinson's, Alzheimer's and Cerebellar Degenerative Diseases guarantees students, in addition to the most rigorous and up to date education, access to a Postgraduate Diploma issued by TECH Global University.

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

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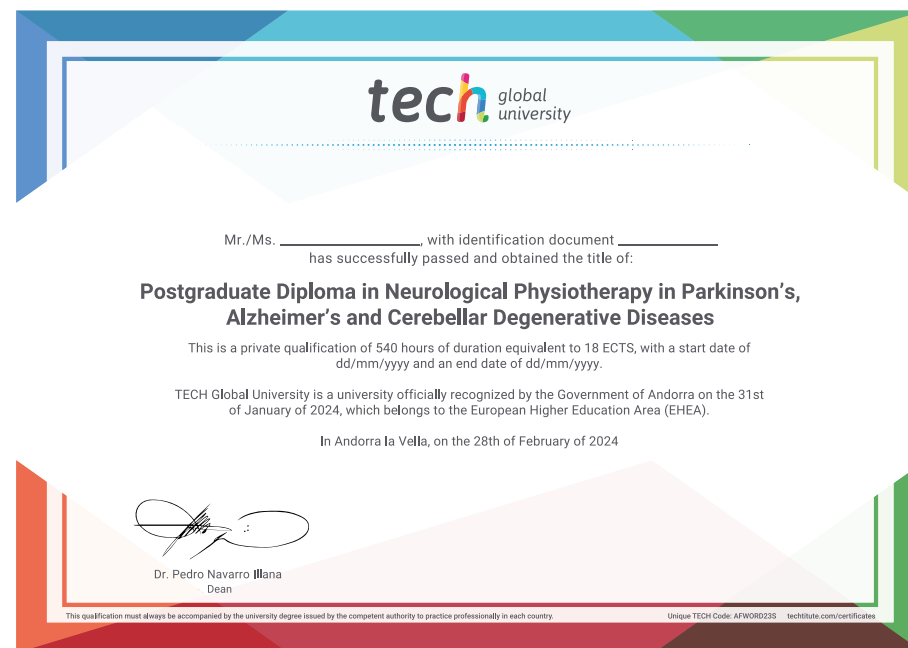
This **TECH Global University** private qualification is a European program of continuing education and professional updating that guarantees the acquisition of competencies in its area of knowledge, providing a high curricular value to the student who completes the program.

Title: **Postgraduate Diploma in Neurological Physiotherapy in Parkinson's, Alzheimer's and Cerebellar Degenerative Diseases**

Modality: **online**

Duration: **6 months**

Accreditation: **18 ECTS**

tech global university

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

Postgraduate Diploma in Neurological Physiotherapy in Parkinson's, Alzheimer's and Cerebellar Degenerative Diseases

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

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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Neurological Physiotherapy in Parkinson's, Alzheimer's and Cerebellar Degenerative Diseases

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- » Credits: **18 ECTS**
- » Schedule: **at your own pace**
- » Exams: **online**

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