

Postgraduate Certificate Devices in Physical Therapy to Promote Autonomy





Postgraduate Certificate Devices in Physical Therapy to Promote Autonomy

Course Modality: **Online**

Duration: **2 months**

Certificate: **TECH Technological University**

Official N° of hours: **200 h.**

Website: www.techtute.com/postgraduate-certificate/devices-physical-therapy-promote-autonomy

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01 Introduction

When patients' mobility compromises their autonomy, the physiotherapy professional can count on the support of the different devices developed by technology in this field. However, their proper and safe use requires a study to determine in each case what is most suitable, and, above all, what is safest. Supported by the most innovative advances in this field, this program will provide you with the most comprehensive knowledge on the subject, with a high quality multidisciplinary and advanced vision.





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A fully updated compendium of autonomy aids that offer physiotherapy an essential support in the work for the quality of life of patients"

There are numerous and diverse autonomy supports that the physiotherapy professional must be aware of in order to be able to offer them to the people who require them. Studying and understanding them exhaustively is a gateway to effectiveness that will highlight the specific needs of each person, avoiding standardization and taking advantage of individual capabilities, studying their needs and, where appropriate, the limitations that may affect their use.

To intervene in these cases, the professional must assess and explore the patient's resistance and physiological reserves to establish the appropriate framework for action, home care, residential care, day care centers, social centers or private clinics.

It is therefore essential to know the tools of physiotherapy and the appropriateness of their application in each case, such as active exercise, manual therapy and electrotherapy. Being able to work in an interdisciplinary team, with appropriate communication tools, understanding the concept of person-centered care, having the most up-to-date knowledge of support devices and even the support of current technology can be key to success in physical therapy treatment.



All the new developments that have come to physiotherapy in the form of assistive devices, in a program that is configured as a high training tool"

This **Postgraduate Certificate in Devices in Physical Therapy to Promote Autonomy** offers you the characteristics of a program of high scientific, teaching and technological level. These are some of its most notable features:

- 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 practising 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-evaluation and learning verification
- Support groups and educational synergies: questions to the expert, debate and knowledge forums
- Communication with the teacher and individual reflection work
- Availability of content from any device, fixed or portable, with Internet connection
- Supplementary documentation databases are permanently available, even after the program

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A learning system compatible with other activities that will allow you to combine it, without losing efficiency or quality”

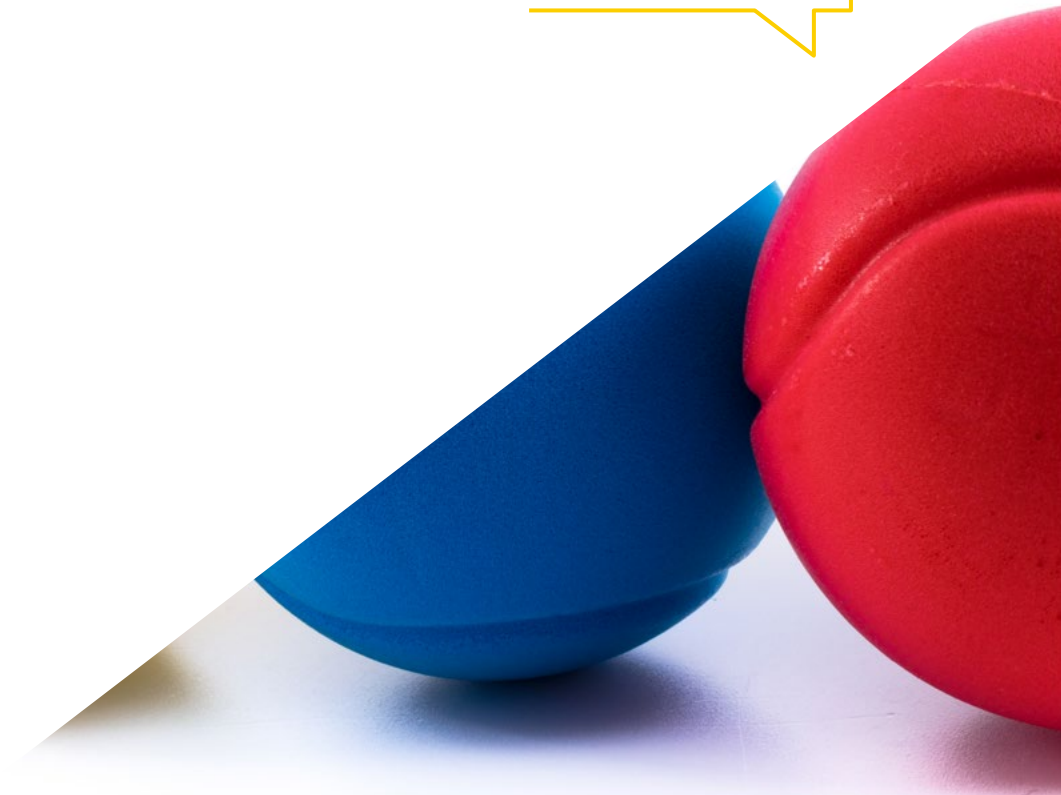
The program's teaching staff includes professionals from the sector who contribute their work experience to this training program, as well as renowned specialists from leading societies and prestigious universities.

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 training programmed to train 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 student will be assisted by an innovative interactive video system created by renowned and experienced experts.

Boost your work capacity and your competitiveness in the labor market with this high-quality program.

With the support of high-quality audiovisual systems, the purpose of this program is that you not only acquire the knowledge, but that, upon completion, you possess the working skills you need in this field.



02 Objectives

You will experience a before and after in your professional growth. The objective is to generate specialized knowledge in the student by creating a well-structured basis to identify the clinical signs associated with the different needs and developments, providing a broad and contextual view of the activity of this field today.





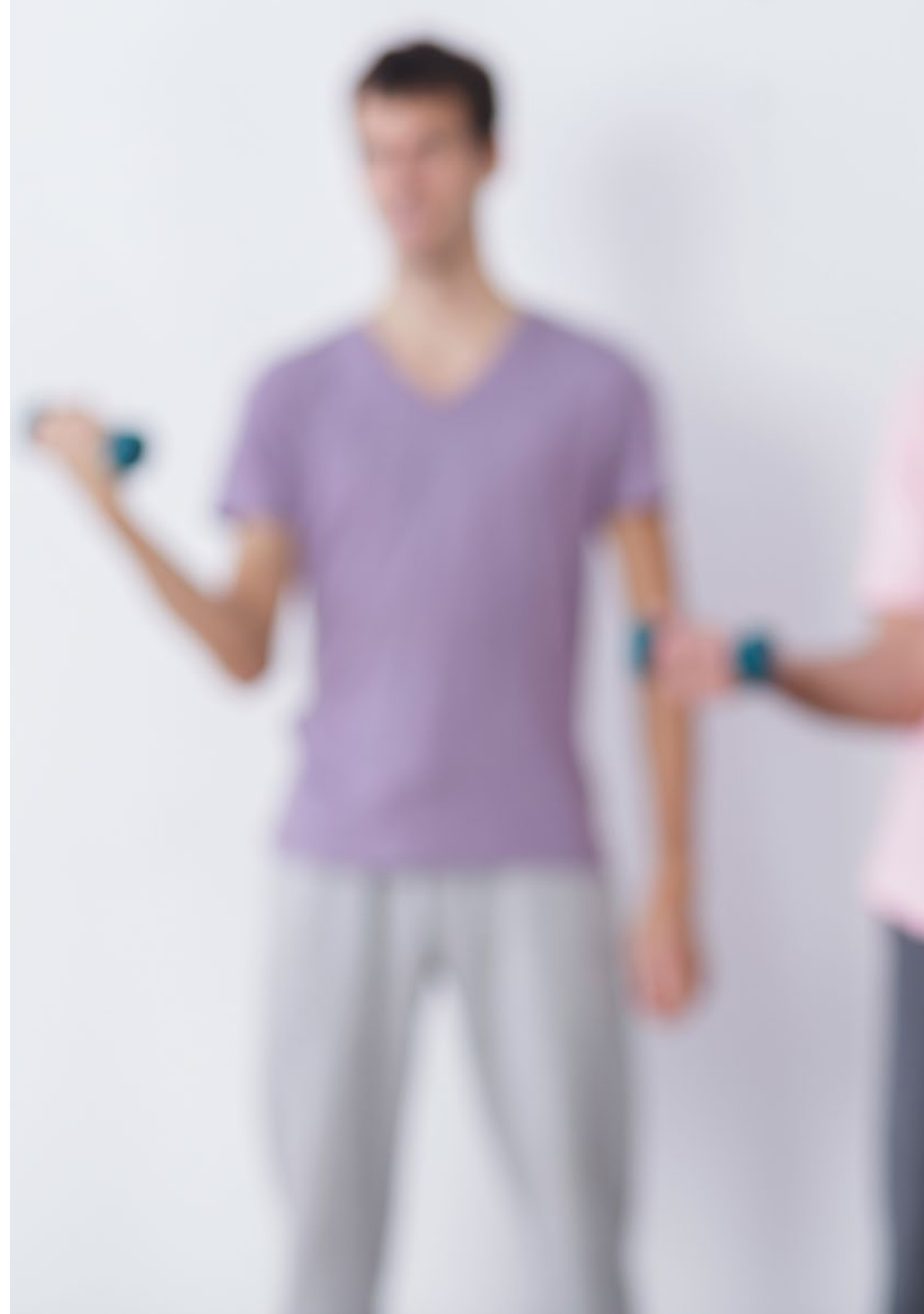
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The objective is to provide the physiotherapy professional with the most comprehensive knowledge in working with people with reduced mobility, with the appropriate use of external support and restraint systems"



General Objective

- Develop a critical and reasoned attitude, based on the most recent scientific evidence, towards physiotherapeutic diagnosis in the elderly patient and to be able to apply an adequate treatment in order to reduce functional impotence, fragility and deterioration, thus favoring an improvement of physical and mental health in old age





Specific Objectives

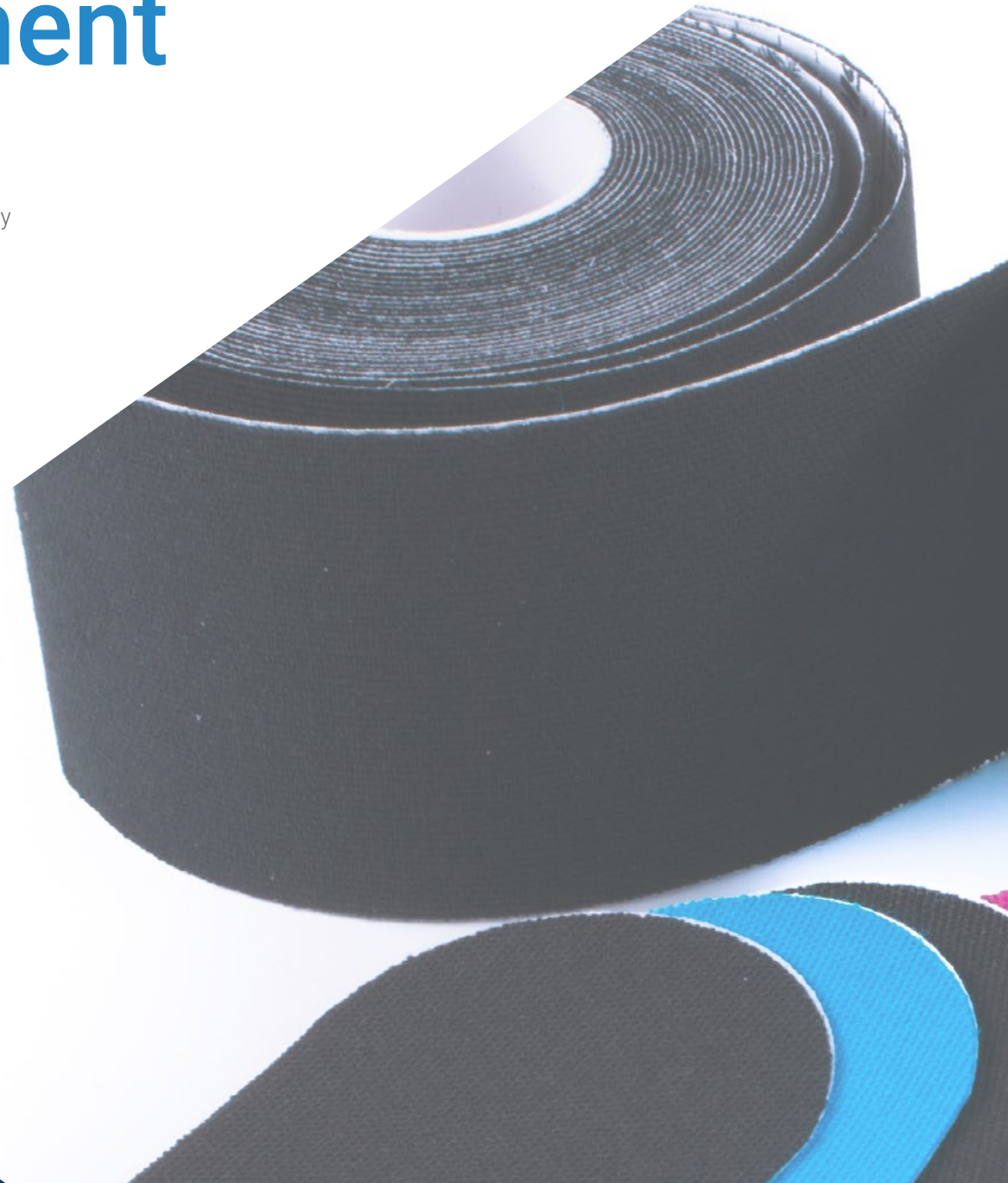
- Define and classify the different assistive devices for activities of daily living
- Define and classify the different pressure relieving devices for the prevention of pressure ulcers
- Explain the novelties in the different devices designed to facilitate mobility and correct positioning
- Explain the application of accessibility and architectural barrier removal support products
- Define new technology for the creation of low-cost support products



03

Course Management

Learn from leading specialists in physiotherapy and geriatrics, who pour into this training the experience of their work. Additionally, other recognized specialists participate in its design and preparation, which means that the program is developed in an interdisciplinary manner.





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A professional growth experience of great value for your CV but above all, for your professional and personal development”

Guest Director



Dr. Castillo, Juan Ignacio

- ♦ Chief of Physical Medicine and Rehabilitation Service. 12 de Octubre Hospital. Madrid
- ♦ Associate Professor Universidad Complutense de Madrid. Faculty of Medicine. 2016
- ♦ Collaborating Professor at Universidad Complutense de Madrid. 2011-2016
- ♦ Teaching coordinator in continuing education courses at the Madrid Regional Ministry of Health: "Tertiary prevention in chronic cardiopathic patients" Cardiac Rehabilitation"
- ♦ Master's Degree in Cardiac Rehabilitation. SEC-UNED
- ♦ Master in Disability Assessment Autonomous University Madrid
- ♦ Master Child Disability. Complutense University of Madrid
- ♦ Doctorate Course: Neurosciences University of Salamanca
- ♦ Degree in Medicine and Surgery. University of Salamanca
- ♦ Coordinator of continuing education of the Spanish Society of Cardiology in Exercise Testing with Oxygen Consumption

Co-Direction



Dr. García Fontalba, Irene

- Manager and physiotherapist at the private physiotherapy center Cal Moure'S, born with the aim of treating limitations of daily living skills due to pain or pathologies associated with aging
- Member of the Girona Territorial Section of the Association of Physiotherapists of Catalonia.
- Creator of the blog fisios y otras historias
- Psychology undergraduate student
- Coordinator the Group of social networks of the group of professionals for the promotion of health in Girona (2015-2017)
- More than ten years working in geriatric pathology and processes involving pain at home and in private practice

Professors

Dr. Soto Bagaria, Luis

- ◆ Physiotherapist and researcher at Parc Sanitari Pere Virgili;
- ◆ Master in Neuromusculoskeletal Physiotherapy;
- ◆ Member of the research team on aging, frailty and transitions (Re-Fit BCN);
- ◆ More than 10 years working in the field of aging

Dr. Gil Gracia, Samuel

- ◆ Physiotherapist and Osteopath in free practice in Béziers (France);
- ◆ Member of the Spanish Society of Physiotherapy and Pain SEFID;
- ◆ Author of the videoblog Soy Paciente de Samu, a channel of divulgation on physiotherapy for the population;
- ◆ Specializing in Musculoskeletal Pain

Dr. Jimenez Hernández, Daniel

- ◆ PhD in Educational from the University of Vic
- ◆ Physiotherapist
- ◆ Official Master's Degree in Inclusive Education
- ◆ Member of the research group of attention to diversity at UVic
- ◆ Professor at the University of Vic
- ◆ Trainer of ACP professionals
- ◆ More than 25 years of experience in caring for people in contexts of disability and dependence





Dr. Gómez Orta, Roger

- ◆ Physiotherapist and Orthopedic Technician
- ◆ Co-founder of Qvitec S.L.
- ◆ Responsible for the seating and positioning clinic service at Qvitec
- ◆ Specialist and trainer in patient management of Handicare products in Spain

Dr. Hernandez Espinosa, Joaquín

- ◆ Physiotherapist. Director of residential center Hotel residencia Tercera edad Pineda. Postgraduate in Respiratory Physiotherapy
- ◆ More than 20 years of experience in the field of physiotherapy in geriatrics at hospital, home and residential level.

Dr. Buldón Olalla, Alejandro

- ◆ Expert in physical activity and sport physiotherapy
- ◆ Master's Degree in Social Networks and Digital Learning
- ◆ More than 12 years of experience in residential and home care for the elderly.
- ◆ Founder of the blog fisioconectados.com
- ◆ Physiotherapist in the Amavir group and in home care for the elderly

Dr. Díaz Zamudio, Delia

- ♦ Resident Intern of Rehabilitation and Physical Medicine in the Rehabilitation Service of the University Hospital 12 de Octubre,
- ♦ Adjunct specialist in the Rehabilitation Service of the University Hospital 12 de Octubre, Madrid
- ♦ Honorary Collaborator of the Department of Physical Medicine and Rehabilitation and Hydrology at the Hospital 12 de Octubre, Complutense University of Madrid
- ♦ Degree in Medicine and Surgery. Faculty of Medicine. University of Seville
- ♦ FEA of Rehabilitation and Physical Medicine, Rehabilitation Service, University Hospital Denia, Alicante in 2013.
- ♦ FEA of Rehabilitation and Physical Medicine, Rehabilitation Service of the University Hospital Alto Deba, Mondragón, San Sebastián in 2012.

Dr. Cuesta Gascón, Joel

- ♦ Resident of Physical Medicine and Rehabilitation at the University Hospital 12 de Octubre, Madrid.
- ♦ Teacher of the Specialization Course in Neuropathic Pain at La Princesa Hospital. 2019
- ♦ Organizer and speaker at "See you on the 12th". "Fundamentals and Physiology of Sport" 2020
- ♦ Speaker at "AMIR 2020 Academy postMIR Conference" on the specialty of Physical Medicine and Rehabilitation
- ♦ Master's Degree in Clinical Medicine, Francisco de Vitoria University, Madrid
- ♦ Medical Degree from the University Camilo José Cela, Madrid.
- ♦ Expert in musculoskeletal ultrasonography

Dr. González García, María Dolores

- ♦ Head of the Neurological Rehabilitation Service, Hospital 12 Octubre, Madrid.
- ♦ Area Specialist Physician, Doce de Octubre Hospital, Madrid
- ♦ Degree in Medicine and Surgery by the University of Alcalá. Alcalá de Henares, Madrid.
- ♦ Specialist in Physical Medicine and Rehabilitation
- ♦ Completion of the specialty of Physical Medicine and Rehabilitation as resident intern (MIR) in the Rehabilitation Service at the University Hospital 12 de Octubre, Madrid, 2002-2006.

Dr. Pino Giráldez, Mercedes

- ♦ Assistant Rehabilitation Physician at University Hospital Doce de Octubre, Madrid
- ♦ Specialist in Physical Medicine and Rehabilitation. Guadalajara University Hospital
- ♦ Specialist in Childhood Disability by Complutense University of Madrid
- ♦ Degree in Medicine and Surgery by Alcalá de Henares University. Madrid
- ♦ MIR Physical Medicine and Rehabilitation
- ♦ Medical Rehabilitation Specialist at the Jiménez Díaz Foundation Hospital. 2012
- ♦ Assistant Rehabilitation Physician at Hospital Rey Juan Carlos I, Madrid. 2013
- ♦ Assistant Rehabilitation Physician at Hospital de Torrejón de Ardoz. 2014
- ♦ Assistant Rehabilitation Physician at the University Hospital of Guadalajara. 2014

Dr. García, Sofía

- ♦ Doctor Specialist - Physical Medicine and Rehabilitation. Pediatric Rehabilitation Department. 12 de Octubre University Hospital, Madrid
- ♦ Doctor Specialist - Physical Medicine and Rehabilitation. 12 de Octubre University Hospital, Madrid
- ♦ Specialist in Physical Medicine and Rehabilitation, Language Rehabilitation Center (CRL), Madrid
- ♦ Master in Musculoskeletal Ultrasound and Ultrasound-Guided Interventionism. San Pablo Andalucía CEU
- ♦ Degree in Medicine, San Pablo CEU University School of Medicine, Madrid.
- ♦ Pelvic Floor Unit (University Hospital 12 de Octubre, Madrid, Spain).
- ♦ Facial Paralysis and Neurorehabilitation Unit (H.U. La Paz, Madrid)
- ♦ Cardiac Rehabilitation (Cardiac Rehabilitation Unit of HU 12 de Octubre)
- ♦ Respiratory Rehabilitation H.G.U. Gregorio Marañón, Madrid
- ♦ Neurorehabilitation Unit (12 de Octubre H.U.)
- ♦ Rehabilitation in spinal cord injury (National Hospital of Paraplegics, Toledo)

Dr. Blesa Esteban, Irene

- ♦ Internal Medicine Resident: 12 de Octubre University Hospital, Madrid
- ♦ Expert in musculoskeletal ultrasonography
- ♦ Course on Neuropathic Pain Management for Medicine
- ♦ Course on Evaluation and prescription of therapeutic exercise.
- ♦ Course in Life Support for Residents
- ♦ Supervision of doctoral thesis: Diagnosis of congenital heart disease in the first trimester of pregnancy ultrasound

Dr. Jiménez, Henar

- ♦ Internal Medicine Resident: 12 de Octubre University Hospital, Madrid
- ♦ Course on the Safe Use of Medication in the Madrid Health Service
- ♦ Expert in Physiotherapy and Sports Rehabilitation at the International University Isabel of Castile

04

Structure and Content

A complete and innovative program, which includes current topics and others that will provide a review and solidification of essential basic knowledge. Through a complete and detailed syllabus, you will cover all the essential subject areas, gradually acquiring the necessary skills to put the necessary knowledge into practice. A very well-developed learning structure that will allow you to learn in a continuous, efficient way and which is tailored to your needs.





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A complete agenda that includes all the devices and systems that have been incorporated into physiotherapy, in a compendium of high utility for the professional"

Module 1. Updating in support devices for the autonomy of people

- 1.1. Support Product Definition
 - 1.1.1. Framework and Definition of Supporting Product
 - 1.1.1.1. ISO Business School 9999
 - 1.1.1.2. EASTIN
 - 1.1.2. What Characteristics Must Each Support Product (S.P.) Comply With?
 - 1.1.3. Success in Optimal Product Support Advice
- 1.2. Updating of the Different Assistive Devices for the Activities of Daily Living
 - 1.2.1. Facilitating Devices for Feeding
 - 1.2.2. Dressing Aids
 - 1.2.3. Facilitating Devices for Hygiene and Personal Care
- 1.3. Update on Different Pressure-Dissipating Devices for Pressure Ulcer Prevention
 - 1.3.1. Sitting
 - 1.3.2. Supine position
 - 1.3.3. Pressure Blanket Evaluation System
- 1.4. Transfers
 - 1.4.1. Transfers and Mobilizations
 - 1.4.1.1. Common Errors
 - 1.4.1.2. Basic Guidelines for the Correct Use of the Different Devices
 - 1.4.2. Device Upgrades
- 1.5. Novelties in the Different Devices Designed to Facilitate Mobility and Correct Positioning
 - 1.5.1. General Framework
 - 1.5.2. Mobility Devices in Geriatrics
 - 1.5.2.1. Tilting Chair
 - 1.5.2.2. Scooter
 - 1.5.2.3. Electronic Driving Wheelchair
 - 1.5.2.4. Relocation Assistance
 - 1.5.2.5. Rear Walker
 - 1.5.3. Positioning Devices in Geriatrics
 - 1.5.3.1. Backups
 - 1.5.3.2. Headrest





- 1.6. Personalized Devices for the Control of Wanderers, Plesioassistance
 - 1.6.1. Definition of Plesioassistance or Control of Wanderers
 - 1.6.2. Differences between Plesioassistance and Telecare
 - 1.6.3. Objectives of Plesioassistance or Control of Wanderers
 - 1.6.4. Components of the Plesioassistance Devices
 - 1.6.5. Simple Wanderer Control Devices for Home Environments
 - 1.6.6. Adaptation of the Environment to Facilitate the Wanderer's Orientation
 - 1.6.7. Summary
- 1.7. Furniture support products for the improvement of the environment
- 1.8. Upgrading of Accessibility Support Products and Architectural Barrier Removal Products
 - 1.8.1. Framework for the Abolition of Architectural Barriers and Universal Access to Housing
 - 1.8.2. Support Products for the Removal of Architectural Barriers in the Living Environment
 - 1.8.2.1. Ramps
 - 1.8.2.2. Lift Chairs
 - 1.8.2.3. Inclined Elevated Platform
 - 1.8.2.4. Overhead Crane
 - 1.8.2.5. Short Travel Ladder Platform
 - 1.8.2.6. Lifting Platform
 - 1.8.2.7. Stair Climbing Devices
 - 1.8.2.8. Convertible Ladder

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.





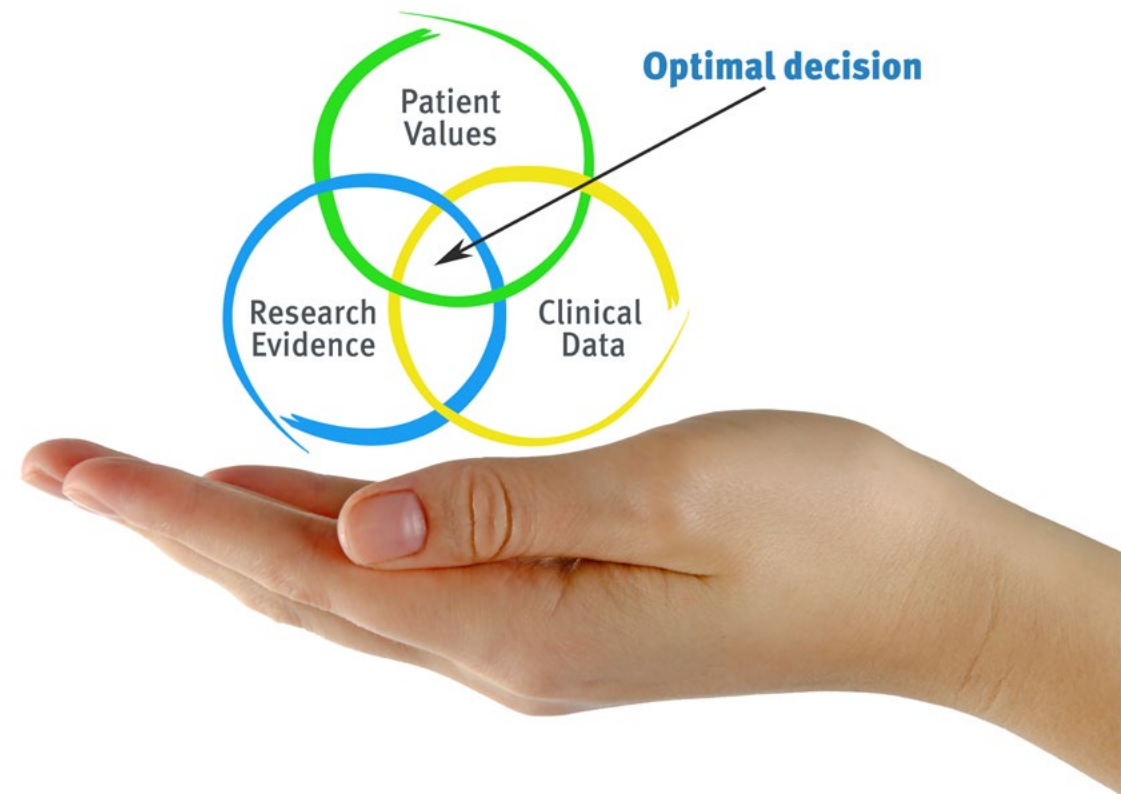
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Discover Relearning, a system that abandons conventional linear learning, to take you through cyclical teaching systems: a way of learning that has proven to be extremely effective, especially in subjects that require memorization"

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 can 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 for Harvard 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 Harvard 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 simple 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. All this in a highly demanding environment, where the students have a strong socio-economic profile and an average age of 43.5 years.

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 to success.

In our course, learning is not a linear process, but happens in a spiral (learn, unlearn, forget and relearn). 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 highly 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.

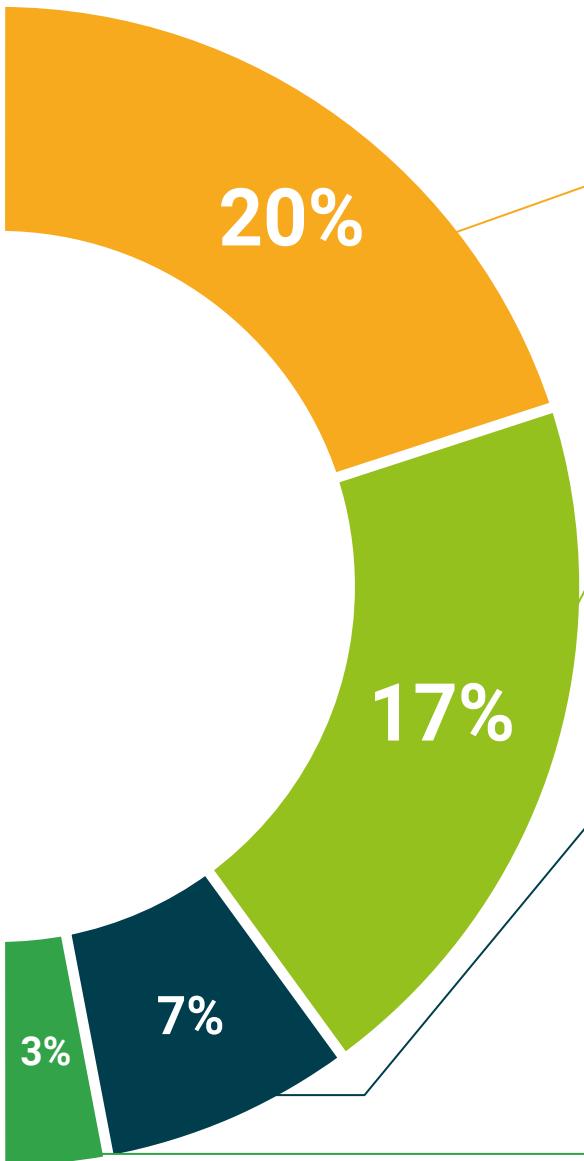
This unique multimedia content presentation training system was awarded by Microsoft as a "European Success Story".



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

The student's knowledge is periodically assessed and re-assessed throughout the Progression, through evaluative and self-evaluative activities and exercises: in this way, students can check how they are doing in terms of achieving their goals.



Classes

There is scientific evidence on the usefulness of learning by observing experts: The system termed Learning from an Expert strengthens knowledge and recall capacity, and generates confidence in the face of difficult decisions in the future.



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 Devices in Physical Therapy to Promote Autonomy guarantees you, in addition to the most rigorous and up-to-date training, access to a certificate degree issued by TECH Technological University.



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Successfully complete this training program and receive your university certificate without travel or laborious paperwork”

This **Postgraduate Certificate in Devices in Physical Therapy to Promote Autonomy** contains the most complete and up-to-date educational 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 through the Postgraduate Certificate and meets the requirements commonly demanded by labor exchanges, competitive examinations, and professional career evaluation committees.

Title: **Postgraduate Certificate in Devices in Physical Therapy to Promote Autonomy**
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.

future

health

confidence people

education information tutors

guarantee accreditation teaching

institutions technology learning

community commitment

personalized service innovation

knowledge present quality

online treatment

development languages

virtual classroom

tech technological
university

Postgraduate Certificate

Devices in Physical Therapy
to Promote Autonomy

Course Modality: Online

Duration: 2 months

Certificate: TECH Technological University

Official N° of hours: 200 h.

Postgraduate Certificate

Devices in Physical Therapy to Promote Autonomy

