



Postgraduate Diploma Physiotherapeutic Intervention in Acquired Brain Injury

» Modality: online

» Duration: 6 months

» Certificate: TECH Global University

» Credits: 24 ECTS

» Schedule: at your own pace

» Exams: online

Website: www.techtitute.com/us/physiotherapy/postgraduate-diploma/postgraduate-diploma-physiotherapeutic-intervention-acquired-brain-injury

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tech 06 | Introduction

This, coupled with the public's awareness of the need for specialized professionals, is leading to an increase in the demand for physiotherapists who are able to understand how the nervous system works after an injury and how to get the most out of it to minimize the after-effects of the injury.

In addition, we are living a time of great advances in the field of Neuroscience, as well as Physiotherapy as a science, which compels to update students' knowledge both about the functioning of the nervous system, as well as how to evaluate and therapeutically approach a person with ABI, since each injury is different and will manifest itself in a different way in each patient.

This Postgraduate Diploma aims to be a compendium of the most up-to-date evidence and scientific knowledge of the nervous system and its rehabilitation when it is injured in a unexpected way. Thanks to this, it is presented as a program capable of providing specialist training to physiotherapists who have never dealt with people with ABI, but who are interested in steering their professional future towards this type of patient.

Equally, professionals that are already neurological physiotherapists, whether or not they deal with ABI, will find the opportunity to update their knowledge and achieve a more advanced specialization in this type of patients.

In addition, by understanding so much information about Neuroscience and functionality, it can be a useful tool for the physiotherapist whose target patient is not specifically one suffering from an ABI or a neurological pathology, yet needs to know the ins and outs of the nervous system to better understand and address the injury or therapeutic need of the patient.

This **Postgraduate Diploma in Physiotherapeutic Intervention in Acquired Brain Injury** contains the most complete and up-to-date scientific program on the market.

The most important features include:

- Practical cases presented by experts in the Physiotherapeutic Intervention in Acquired Brain Injury
- The graphic, schematic, and eminently practical contents with which they are created provide scientific and practical information on the disciplines that are essential for professional practice
- * Latest innovations in Physiotherapeutic Intervention in Acquired Brain Injury
- It contains practical exercises where the self-evaluation process can be carried out to improve learning
- With special emphasis on innovative methodologies in the Physiotherapeutic Intervention in Acquired Brain Injury
- All of this will be complemented by 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



Update your knowledge with the
Postgraduate Diploma in Physiotherapeutic
Intervention in Acquired Brain Injury"

Introduction | 07 tech



This Postgraduate Diploma may be the best investment you can make when choosing a refresher program, for two reasons: in addition to updating your knowledge in the Physiotherapeutic Intervention in Acquired Brain Injury you will obtain a qualification from TECH Global University"

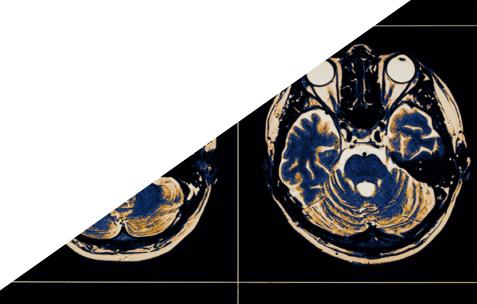
The teaching staff includes professionals from the field of Physiotherapeutic Intervention in Acquired Brain Injury, who bring their experience to this program, as well as renowned specialists from leading societies and prestigious universities.

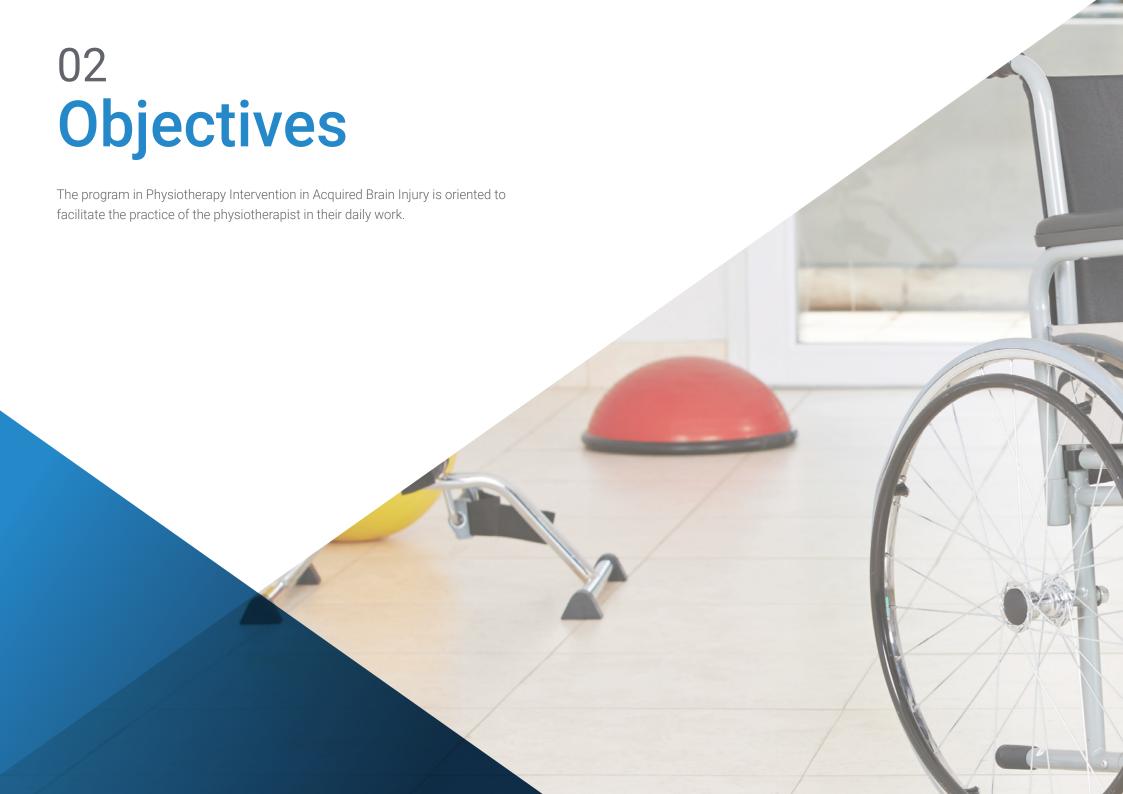
The multimedia content developed with the latest educational technology will provide the professional with situated and contextual learning, i.e., a simulated environment that will provide an immersive training program to train in real situations.

The design of this program focuses on Problem Based Learning, by means of which the psychologist must try to solve the different professional practice situations that arise throughout the program. For this reason, you will be assisted by an innovative, interactive video system created by renowned and experienced experts in the field of Physiotherapeutic Intervention in Acquired Brain Injury with extensive teaching experience.

Increase your decision-making confidence by updating your knowledge with this University Expert course.

Make the most of the opportunity to learn about the latest advances in the Physiotherapeutic Intervention in Acquired Brain Injury and improve your patient care.







tech 10 | Objectives

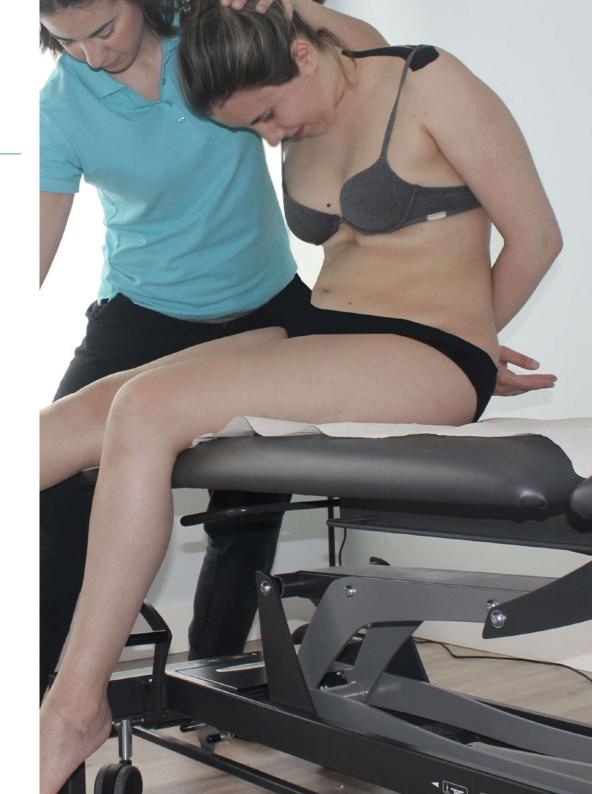


General Objectives

- Enable specialization of the physiotherapist in the field of neurological rehabilitation
- Update the knowledge of the physiotherapist in Neuroscience applied in the clinic
- Enhance clinical practice that is based on scientific evidence and clinical reasoning
- Facilitate the integral care of the neurological patient in all their complexity



Make the most of the opportunity and take the step to get up to date on the latest developments in the Physiotherapeutic Intervention in Acquired Brain Injury"





Specific Objectives

Module 1. ABI

- Recognize what is and what is not ABI
- Identify different symptoms and syndromes according to the area affected by the ABI
- Learn to identify hemineglect and understand its implications for the patient and for the therapeutic approach
- Learn to recognize the pusher syndrome and gain up-to-date knowledge about it in view of its implications in the therapeutic approach
- Understand the difference between cerebellar versus basal ganglia symptomatology
- Distinguish spasticity from other tone disturbances
- Recognize apraxia and its implications for the patient and for the therapeutic approach
- Learn to identify alien hand syndrome

Module 2. Assessment of a Patient with ABI

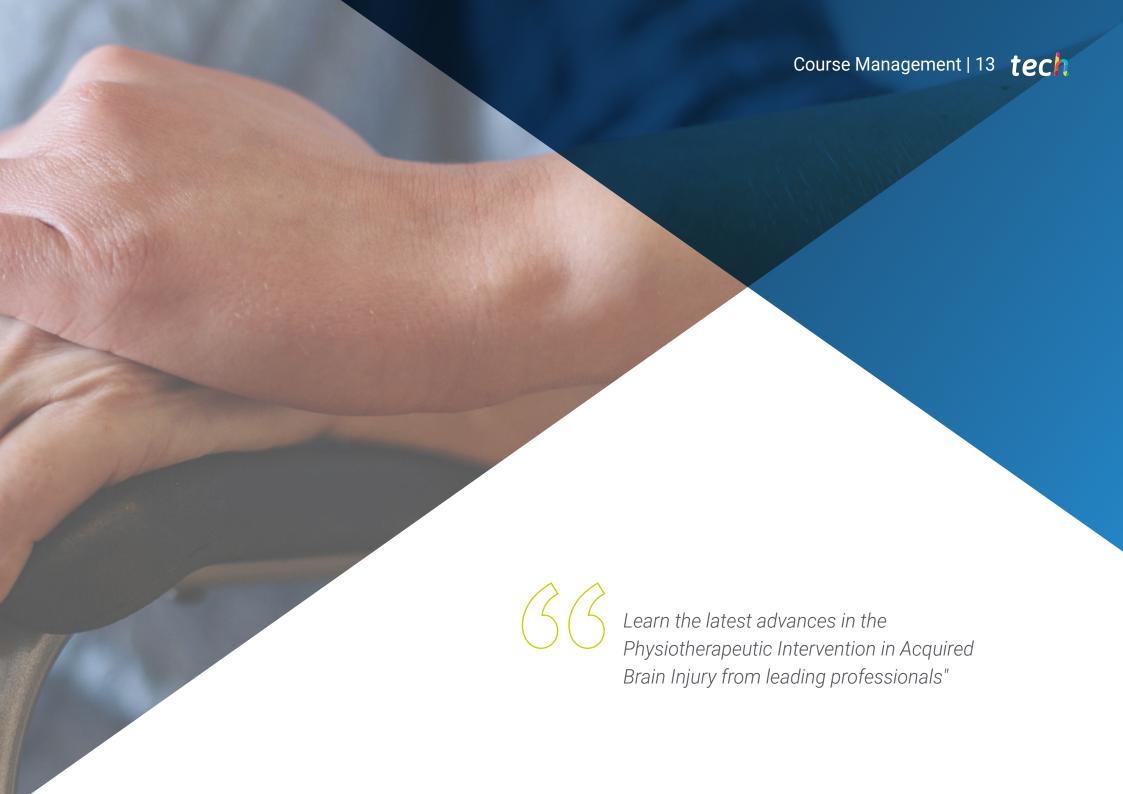
- Interpret the radiological findings in a CAT scan
- Interpret the radiological findings in MRI
- Learn examination techniques for the differential diagnosis of the different neurological signs and symptoms
- Know the pathological reflexes and identify them
- Conduct a review of assessment scales and tests
- Learn to write physiotherapy reports
- Learn to interpret medical reports or reports from other specialists in order to

extract the relevant information

Module 3. Multidisciplinary Intervention in ABI

- Review the most useful orthoses and support products for patients with ABI
- Learn to identify communication disorders in order to refer them to the competent professional and contemplate them in the patient's overall condition
- Learn to identify swallowing disorders in order to refer them to the competent professional and contemplate them in the overall condition of the patient
- Learn to identify behavioral disorders secondary to ABI in order to refer them to the competent professional and contemplate them in the overall condition of the patient
- Take into account the emotional state of the patient and the family and how it affects the approach and rehabilitation





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Management



Ms. De Andrés Garrido, Berta

- Neurophysiotherapist at the Neurological Rehabilitation Center in Neurointegra
- Diploma in Physiotherapy
- Master's Degree in Neurological Physiotherapy of Adults and Children
- Master's Degree in Neurological Physiotherapy

Professors

Mr. Abeledo, Juan Luis

• Physiotherapist - Upacesur Foundation

Ms. Aguirre Moreno, Arantzazu

Occupational Therapist

Ms. Amor Hernández, Paloma

- Psychologist
- Currently studying a PhD in Health Psychology from the National University of Remote Education

Ms. Bacardit, Laura

- Physiotherapist. MIT
- Diploma in Physiotherapy
- Master's in Neurorehabilitation in the Guttmann Institute (UAB)
- * Specialist in Neurosciences, Aquatic Therapu and Therapeutic Exercise

Mr. Del Barco Gavala, Alberto

- Degree in Psychology from the University of Granada
- Master's Degree in Clinical Neuropsychology from the Pablo Olavide University
- Master's Degree in Neurosciences and Behavioral Biology from the Pablo de Olavide University
- International Master's Degree Neuroscience and Biology of Behavior from the Autonomous University of Barcelona
- Specialist in Neuropsychology

Dr. Ferrand Ferri, Patricia

Specialist in Physical Medicine and Rehabilitation

Ms. Ferreiro Pardo, Tatiana

- Physiotherapist in the Teresa Herrera Mother and Child Hospital in A Coruña
- Degree in Physiotherapy
- Master's Degree in Neuroscience with a major in Medical Neurobiology
- Specialist in the evaluation and treatment of adult neurological patients
- Specialist in the treatment and evaluation of pediatric patients with neurological alterations and collaboration with the virtual reality development programs for physical rehabilitation

Dr. Gómez Soriano, Julio

- Head of the Research Group in Physiotherapy Toledo (GIFTO) University School of Nursing and Physiotherapy of Toledo University of Castilla La Mancha(UCLM)
- * Sensory-Motor function National Hospital of Paraplegics Toledo
- Diploma in Physiotherapy
- Degree in Physical Activity and Sports Sciences from UCLM
- Master's Degree in Neurological Pathology and PhD from Rey Juan Carlos University

Dr. Lerma Lara, Sergio

- Professor and Researcher at La Salle University Center
- Dean of the Faculty of Health Sciences. La Salle Higher Center for University Studies. UAM
- Researcher in the Biomedical Research Foundation of the Niño Jesús Children's University Hospital
- Diploma in Physiotherapy
- PhD in Physiotherapy

Mr. Mariño Estelrrich, Ignacio

- Physiotherapist in Sant Joan de Deú de Martorell Hospital (Barcelona)
- Degree in Physiotherapy
- Master's Degree in Neurophysiotherapy
- Master's Degree in Management, Administration and Entrepreneurship of Health Care Centers and Social Services

Dr. Pérez Nombela, Soraya

- Research Group in Physiotherapy Toledo (GIFTO) University of Castilla La Mancha,
- Diploma in Physiotherapy
- Master's Degree in Neurological Pathology
- Specialist in Human Gait Biomechanics, Neurorehabilitation, Robotics and Spinal Cord Injury.

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Dr. Rodríguez Sánchez, Augusto Rembrandt

- * Professor en Cardenal Spínola University Center of Studies CEU
- Degree in Physical Activity and Sports Science
- PhD from the University of Seville

Ms. Bacardit, Laura

- Physiotherapist. MIT
- Diploma in Physiotherapy
- Master's in Neurorehabilitation in the Guttmann Institute (UAB)
- * Specialist in Neurosciences, Aquatic Therapu and Therapeutic Exercise

Mr. Rubiño Díaz, José Ángel

- Collaborating Researcher in the University of the Balearic Islands
- General Health Psychologist
- PhD in Neuroscience. University of the Balearic Islands
- Advanced Studies Certificate in Psychobiology
- Master's Degree in Neuroscience

Mr. Ruiz García, Pablo

- Physiotherapist in ADACEA Alicante
- Degree in Physiotherapy
- Master's Degree in Neurorehabilitation

Ms. Narbona González, Natividad

- Carries out her work at the Neurological Rehabilitation Center at Neurointegra
- Neuropsychologist

Ms. Monís Rufino, Estela

- Neurophysiotherapist
- Neurointegra

Mr. Montero Leyva, José Luis

• Physiotherapist at Beato Fray Leopoldo Residence. Rehabilitation Coordinator

Mr. Díez, Óscar

- Clinical Manager in Neurem Functional Recovery SCP
- Physiotherapist

Ms. Pérez Rodríguez, Mónica

- Neuropsychologist in Neurointegra
- Psychologist
- Master's Degree in Advanced Studies of the Brain and Behavior
- Master's Degree in General Health Psychology
- Specialist in Neuropsychology

Mr. Lafuente, Ignacio

Self-Employed Physiotherapist

Dr. Vázquez Sánchez, Fernando

Neurologist. Burgos University Hospital

Mr. Entrena, Álvaro

- Uner Rehabilitation Clinic
- Physiotherapist

Mr. Lucena Calderón, Antonio

- Medical Park Rehabilitation Clinic (Bad Feilnbach)
- Occupational Therapist

Ms. Alicia Soto, Alba

* Neurological Physiotherapist FISUN Physiotherapy Center

Ms. Arjona, María del Rocío

• Speech Therapist in San Juan de Dios Hospital, Seville

Ms. Moral Saiz, Beatriz

- La Salle Functional Rehabilitation Institute
- Physiotherapist. MSc.

Ms. Piñel Cabas, Inmaculada

- Occupational Neurotherapist
- Neurointegra

Ms. Campos, Julia

• Neurophysiotherapist in Neurodem Clinic

Mr. Lozano Lozano, Mario

- Teacher Researcher
- * Department of Physiotherapy, Faculty of Health Sciences
- University of Granada

Ms. Salgueiro, Carina

 Degree in Physiotherapy with specialty in the Bobath Concept in Adults and Onset in Childhood

Ms. Hurtado de Mendoza Fernández, Alba

- Diploma in Occupational Therapy
- Master's Degree in Neuroscience
- Specialty in Cognitive Neuroscience
- Advanced training in Neurorehabilitation

Ms. Agúndez Leroux, Sandra

- Carries out her work at the Neurological Rehabilitation Center at Neurointegra
- Occupational Therapist

Ms. Abelleira, Estefanía

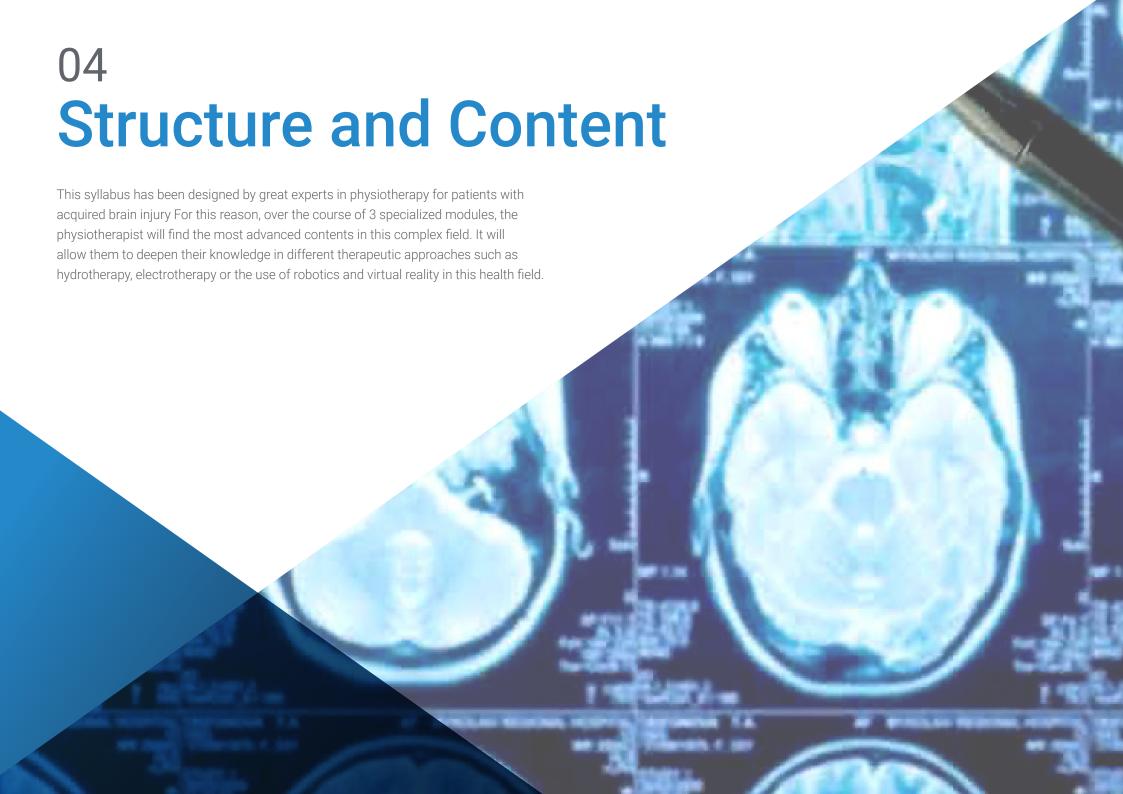
- Neurophysiotherapist
- Master's Degree in Neurophysiotherapy
- Basal Stimulation Training
- Bobath Training
- Perfetti Training
- Neurodynamics Training
- Studies in Social and Cultural Anthropology

Mr. Francisco García, Antonio

- Home Physiotherapist in Motril
- Diploma in Physiotherapy from the University of Granada
- * Master's Degree in Neurophysiotherapy from the Pablo Olavide University

Mr. Crespillo, Víctor

- Psychologist
- DomusVi SAD. Seville





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Module 1. ABI

- 1.1. What Is It?
 - 1.1.1. ABI in Adults
 - 1.1.2. ABI in Childhood
 - 1.1.3. ABI in Elderly People
- 1.2. Functional Alterations
 - 1.2.1. Tone Alterations
 - 1.2.2. Hemineglect
 - 1.2.3. Pusher Syndrome
 - 1.2.4. Cerebellar Syndrome vs. Basal Ganglia Injury
 - 1.2.5. Alien Hand Syndrome
 - 1.2.6. Apraxia

Module 2. Assessment of a Patient with ABI

- 2.1. Medical history
- 2.2. Neuroimaging
 - 2.2.1. Structural
 - 2.2.2. Functional
- 2.3. Neurological Examination
 - 2.3.1. Cranial Nerves
 - 2.3.2. Pathological Reflexes
 - 2.3.3. Muscular
 - 2.3.3.1. Osteotendinous Reflexes
 - 2.3.3.2. Tone
 - 2.3.3.3. Strength
 - 2.3.4. Sensitivity
 - 2.3.4.1. Sensitivity
 - 2.3.4.2. Gnosias
 - 2.3.5. Coordination
 - 2.3.6. Balance
 - 2.3.7. Gait
 - 2.3.8. Manipulation

- 2.4. Neurological Assessment Scales
- 2.5. Writing the Report
 - 2.5.1. Writing a Physiotherapy Report
 - 2.5.2. Interpretation of Medical Information

Module 3. Multidisciplinary Intervention in ABI

- 3.1. Physiotherapy
 - 3.1.1. Ease of Movement
 - 3.1.2. Cognitive Therapeutic Exercise
 - 3.1.3. Neurodynamics
 - 3.1.4. Mirror Therapy
 - 3.1.5. Approach in Context
 - 3.1.6. Approach Oriented to the Task
 - 3.1.7. Intensive Treatment
 - 3.1.8. Constraint Induced Movement Therapy
 - 3.1.9. Dry Needling for Spasticity
 - 3.1.10. Therapeutic Exercise
 - 3.1.11. Hydrotherapy
 - 3.1.12. Electrotherapy
 - 3.1.13. Robotics and Virtual Reality



Structure and Content | 21 tech

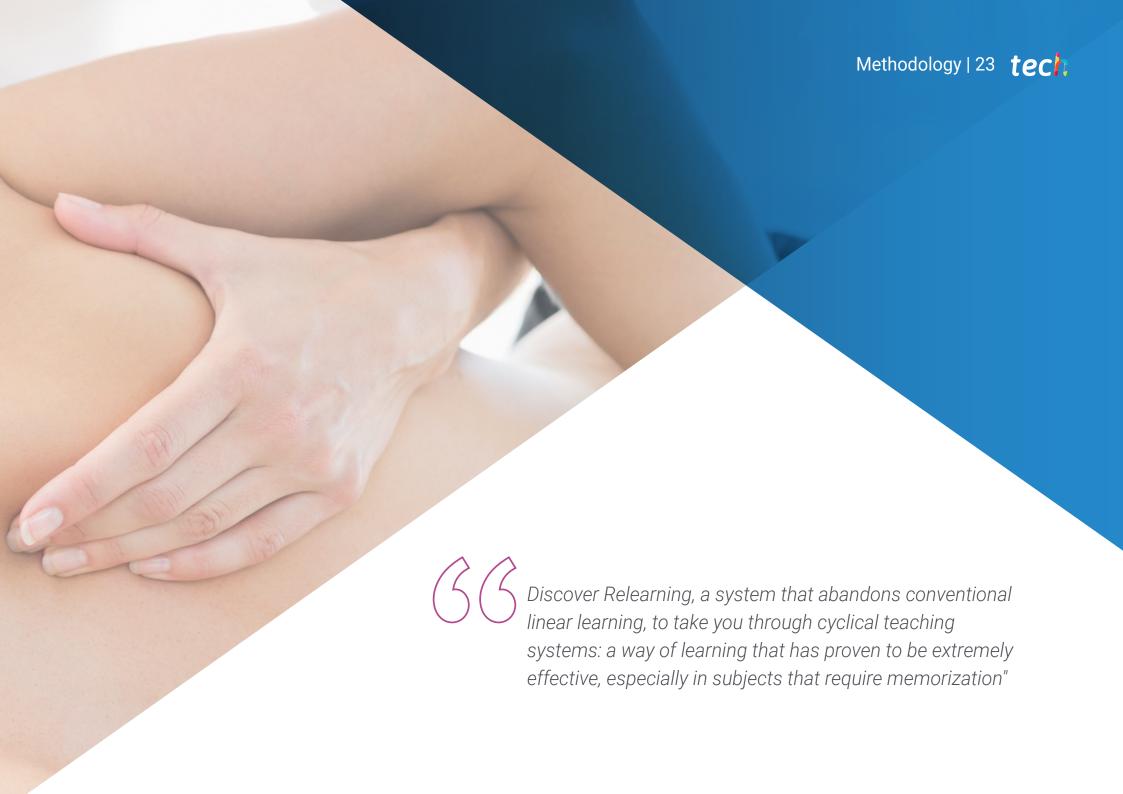
3.2. Equipment

- 3.2.1. Work Models
- 3.2.2. Medicine.
 - 3.2.2.1. Pharmacology
 - 3.2.2.2. Botulinum Toxin
- 3.2.3. Speech Therapy
 - 3.2.3.1. Communication Disorders
 - 3.2.3.2. Swallowing Disorders
- 3.2.4. Occupational Therapy
 - 3.2.4.1. Autonomy
 - 3.2.4.2. Occupation
- 3.2.5. Neuropsychology
 - 3.2.5.1. Cognitive Domains
 - 3.2.5.2. Behavioral Disorders
 - 3.2.5.3. Psychological Care for Patients and Their Family
- 3.2.6. Orthopedics
 - 3.2.6.1. Orthotics and Support Products
 - 3.2.6.2. Low-Cost Material



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



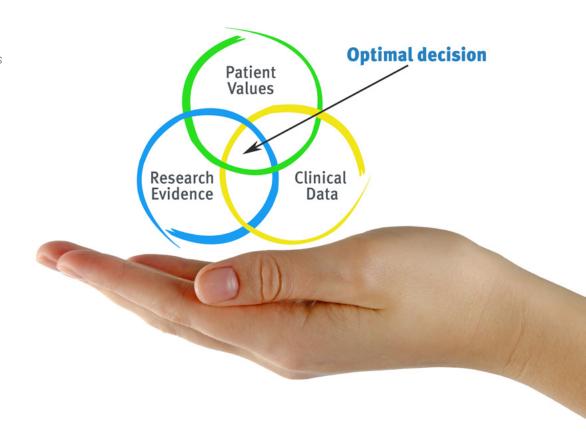


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At TECH we use the Case Method

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 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 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 | 27 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.

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

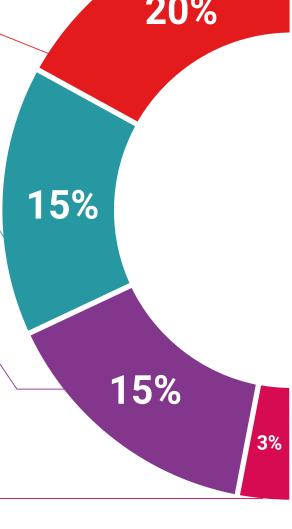
TECH brings students closer to the latest techniques, the latest educational advances and to the forefront of current Physiotherapy techniques and procedures. All of this in direct contact with students and explained in detail so as to aid their assimilation and understanding. And best of all, you can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

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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



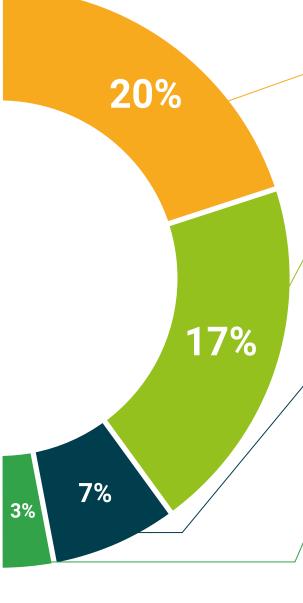
There is scientific evidence on the usefulness of learning by observing experts.

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.







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This private qualification will allow you to obtain a **Postgraduate Diploma in Physiotherapeutic Intervention in Acquired Brain Injury** 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 Physiotherapeutic Intervention in Acquired Brain Injury

Modality: online

Duration: 6 months

Accreditation: 24 ECTS



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

Postgraduate Diploma in Physiotherapeutic Intervention in Acquired Brain Injury

This is a private qualification of 720 hours of duration equivalent to 24 ECTs, with a start date of dd/mm/yyyy and an end date of dd/mm/yyyy.

TECH Global University is a university officially recognized by the Government of Andorra on the 31st of January of 2024, which belongs to the European Higher Education Area (EHEA).

In Andorra la Vella, on the 28th of February of 2024



health confidence people education information tutors guarantee accreditation teaching institutions technology learning



Postgraduate Diploma
Physiotherapeutic
Intervention in Acquired
Brain Injury

- » Modality: online
- » Duration: 6 months
- » Certificate: TECH Global University
- » Credits: 24 ECTS
- » Schedule: at your own pace
- » Exams: online

