



Postgraduate Certificate Physiotherapy in Advances in Neuroscience in Early Pediatric Care

» Modality: online

» Duration: 6 weeks

» Certificate: TECH Technological University

» Dedication: 16h/week

» Schedule: at your own pace

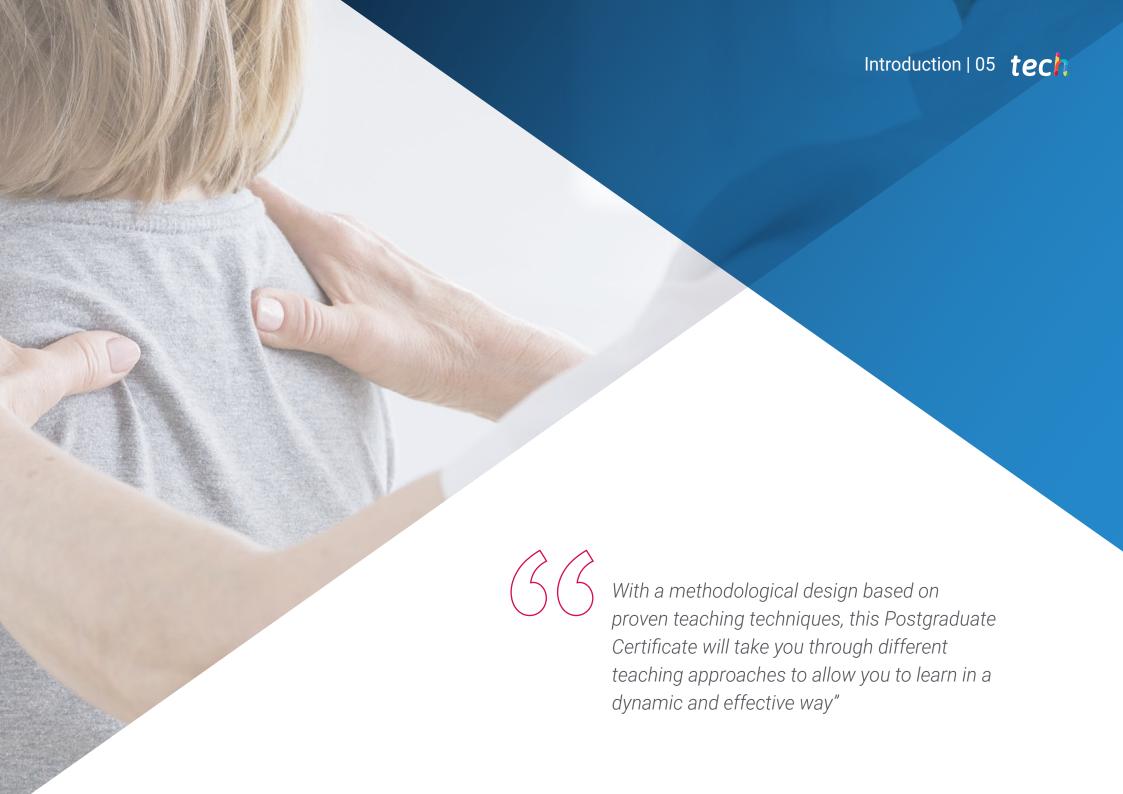
» Exams: online

Website: www.techtitute.com/in/physiotherapy/postgraduate-certificate/physiotherapy-advances-neuroscience-early-pediatric-care

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tech 06 | Presentation

Advances in scientific research have provided pediatric physical therapists with new theoretical and practical perspectives to treat patients. This has resulted in a revision and redefinition of how humans develop and control movement from an early stage, providing a theoretical framework that is based on scientific evidence. It is now possible to better understand what is happening when a child has difficulty performing a normal task.

Based on the information outlined above, it is important to have a program that encourages physical therapists to learn more about this area of study, as this will ensure they can improve patient treatments by making them more effective through a better understanding of their environment. The Postgraduate Certificate in Physiotherapy in Advances in Neuroscience in Early Pediatric Care has been developed by experts in the field to delve into its most important aspects and provide students with the most up-to-date knowledge.

This program will describe the anatomy, functioning and development of the nervous system, as well as plasticity, motor learning and its assessment. The involvement of physiotherapists in the pathology of the nervous system, diagnostic imaging and current evidence on the different methods and techniques will be addressed. Finally, telerehabilitation will be discussed from the perspective of the Covid-19 pandemic situation, what is currently understood as telerehabilitation, as well as the advantages and disadvantages and the patients that qualify for it.

The extensive experience of the teaching staff and their training in the field of child physiotherapy, both nationally and internationally, positions this program above others on the market, so graduates will have an excellent reference. Both the course manager and the professors on the program will put their knowledge and professional experience at the disposal of students in a practical manner. Therefore, this course will give you fast-track knowledge on all aspects related to Physiotherapy in area of Neuroscience.

A 100% online Postgraduate Certificate that provides students with the ease of being able to study it comfortably, wherever and whenever suits them best. All you need is a device with Internet access to take your career one step further. A modality in keeping with the current times and all the guarantees to position Physiotherapists in a highly demanded field

This Postgraduate Certificate in Physiotherapy in Advances in Neuroscience in Early Pediatric Care offers the advantages of a high-level scientific, teaching, and technological program. These are some of its most notable features:

- The latest technology in online teaching software
- Intensely visual teaching system, supported by graphic and schematic contents, easy to assimilate and understand
- Practical cases presented by practicing 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
- Content that is accessible from any fixed or portable device with an Internet connection
- Supplementary documentation databases are permanently available, even after students complete the program



This Postgraduate Certificate differs from others in its theoretical and practical content and the extensive professional experience of its faculty"



An effective and reliable Postgraduate Certificate that will take you through an interesting learning process, so you acquire all the knowledge of an expert in the field"

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.

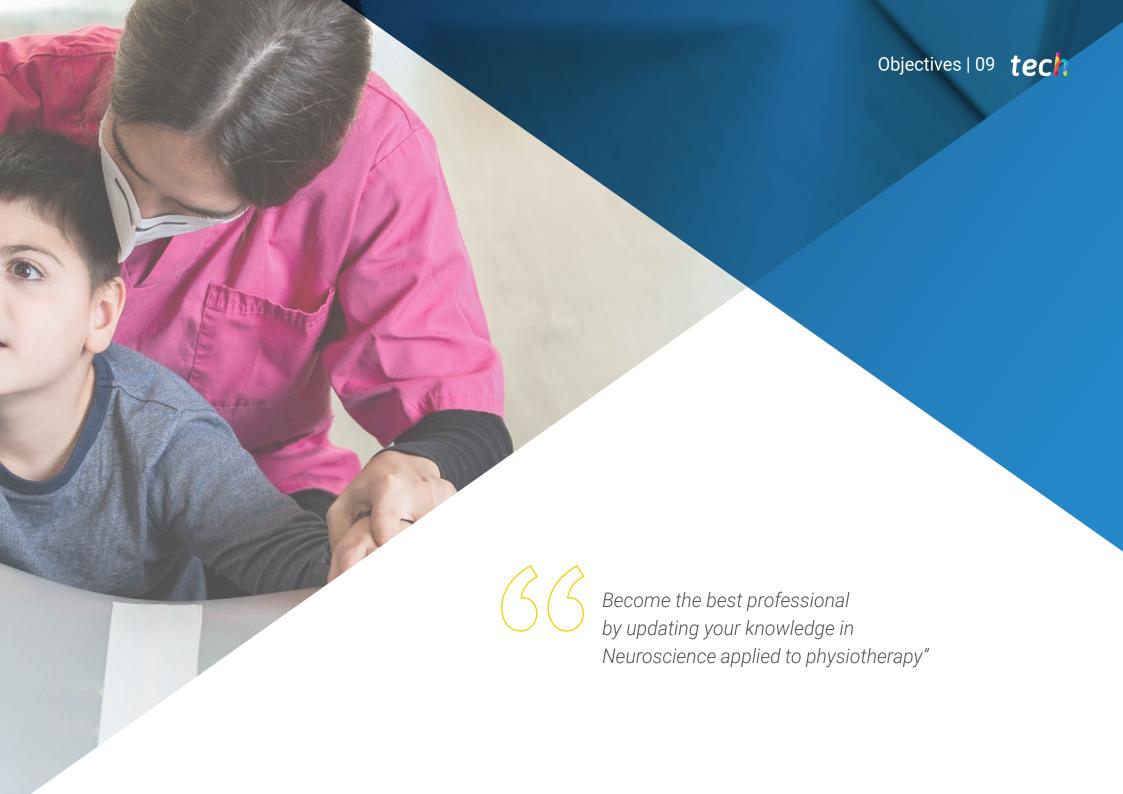
This program is designed around Problem-Based Learning, whereby the professional must try to solve the different professional practice situations that arise during the academic year. For this purpose, the professional will be assisted by an innovative interactive video system created by renowned and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

With an innovative concept of telepractice, the program offers the opportunity to learn through an immersive learning experience that adapts to student needs.

A unique opportunity to specialize and stand out in a highly indemand sector for professionals.







tech 10 | Objectives



General Objectives

- Facilitate specializing in Physiotherapy in Early Care
- Reinforce the importance of the role of the family
- Acquire extensive knowledge of normal and pathological development in children
- Describe the assessment and evaluation methods used in Early Care Physiotherapy
- Gain detailed knowledge of frequent childhood pathologies
- Recognize methods, techniques and tools used in Early Care treatments







Specific Objectives

- Recognize the anatomy of the nervous system
- Know the functioning of the nervous system
- Know how to assess the nervous system
- Gain an in-depth understanding of motor learning
- Identify methods based on scientific evidence
- Interpret imaging test results
- Identify the cases where telerehabilitation is feasible



Knowledge in Neuroscience helps physiotherapists better understand the function of the nervous system and its involvement in motor learning"





tech 14 | Structure and Content

Module 1. Advances in Neuroscience Pediatrics

- 1.1. Central Nervous System (CNS) Anatomy
 - 1.1.1. Neuroanatomy
 - 1.1.2. Fundamental CNS Structures
- 1.2. CNS Functioning
 - 1.2.1. CNS Neurophysiology
 - 1.2.2. Neuronal Synapses
- 1.3. CNS Development
 - 1.3.1. Stages of CNS Development
 - 1.3.2. Critical and Developmentally Sensitive Periods
- 1.4. Brain Plasticity
 - 1.4.1. Neuronal Plasticity
 - 1.4.2. CNS Characteristics that Promote Plasticity
 - 1.4.3. Structural and Functional CNS Changes
 - 1.4.4. Potentiation and Long-Term Depression
- 1.5. CNS Evaluation
- 1.6. Motor Learning
- 1.7. Physiotherapist Involvement in CNS Pathology
- 1.8. Evidence for Methods and Techniques in Neurorehabilitation
- 1.9. Diagnostic Imaging
- 1.10. Telerehabilitation
 - 1.10.1. What Is Currently Understood by Telerehabilitation?
 - 1.10.2. Which Cases Can Benefit from Teleintervention?
 - 1.10.3. Advantages and Disadvantages



Structure and Content | 15 tech



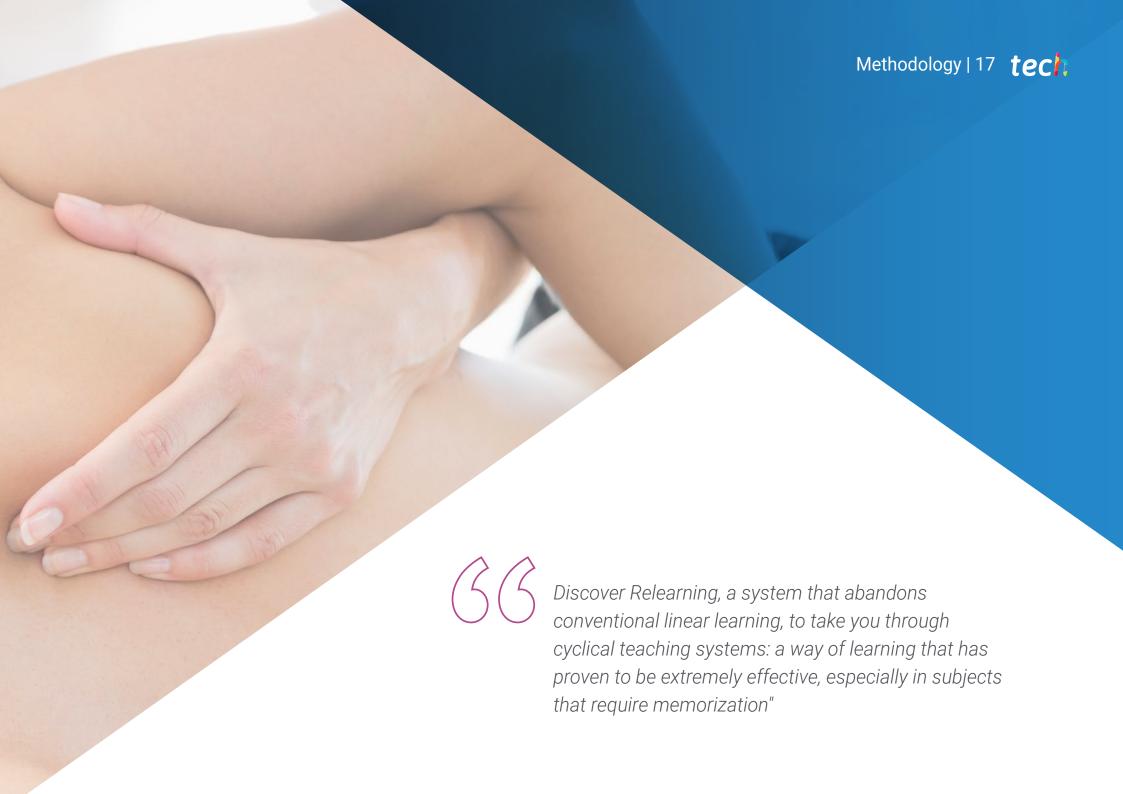


This academic program will provide didactic guidance so students develop their skills through high impact learning"



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.

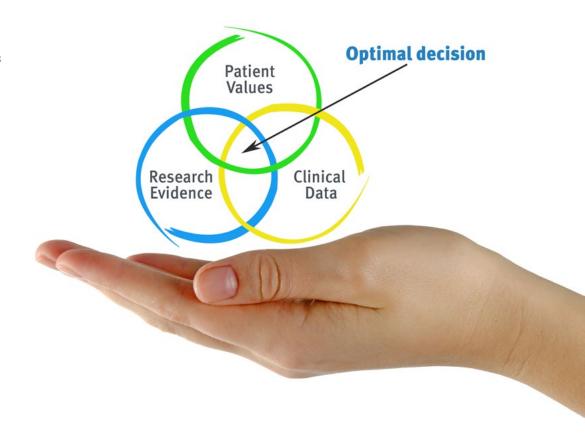


tech 18 | Methodology

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 | 21 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 22 | 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

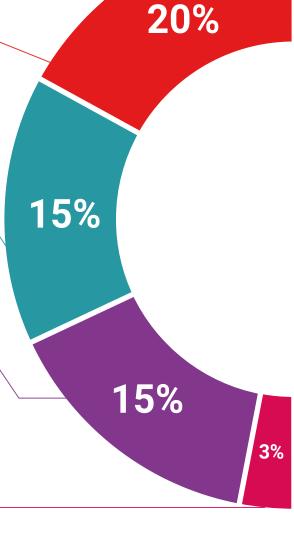
TECH brings students closer to the latest techniques, the latest educational advances and to the forefront of current Physiotherapy techniques and procedures. All of this in direct contact with students and explained in detail so as to aid their assimilation and understanding. And best of all, you can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

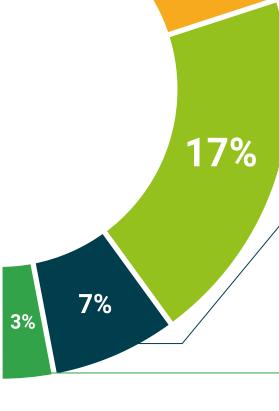
The system known as Learning from an Expert strengthens knowledge and memory, and generates confidence in future difficult decisions.



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%





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This Postgraduate Certificate in Physiotherapy in Advances in Neuroscience in Early Pediatric Care contains the most complete and up-to-date scientific program on the market.

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

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

Title: Postgraduate Certificate in Physiotherapy in Advances in Neuroscience in Early Pediatric Care

Official N° of Hours: 150 h.



POSTGRADUATE CERTIFICATE

in

Physiotherapy in Advances in Neuroscience in Early Pediatric Care

This is a qualification awarded by this University, equivalent to 150 hours, with a start date of dd/mm/yyyy and an end date of dd/mm/yyyy.

TECH is a Private Institution of Higher Education recognized by the Ministry of Public Education as of June 28, 2018.

June 17 2020

Tere Guevara Navarro

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