

# Postgraduate Diploma

## Physiotherapy in Early Care





## Postgraduate Diploma Physiotherapy in Early Care

- » Modality: online
- » Duration: 6 months
- » Certificate: TECH Technological University
- » Dedication: 16h/week
- » Schedule: at your own pace
- » Exams: online

Website: [www.techtitute.com/pk/physiotherapy/postgraduate-diploma/postgraduate-diploma-physiotherapy-early-care](http://www.techtitute.com/pk/physiotherapy/postgraduate-diploma/postgraduate-diploma-physiotherapy-early-care)

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# 01

# Introduction

Physiotherapy in early care promotes the health and well-being of children.

Professionals in this area evaluate, plan and implement treatment programs to improve or recover motor functions that maximize respiratory capacity. In this program, students will address normal development and pathological development in children, including intrauterine development, psychomotor development from 0 to 3 years of age, play development, laterality, cognitive and verbal development. The program will also cover Infantile Cerebral Palsy, taking a deeper look into this pathology and its incidence. A unique opportunity to specialize in a highly in-demand sector for professionals and improve the quality of the services offered.





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*A comprehensive and practical Postgraduate Diploma that will allow you to learn everything you need to work as a physiotherapist in early care in a realistic and direct way”*

Child physiotherapists are in charge of advising, treating and caring for infants and adolescents who either suffer from or are at risk of general developmental delay and congenital or acquired movement disorders. As such, they carry out general assessments of children and their environment to establish the objectives that will help them successfully complete treatment. They are also responsible for establishing the therapeutic intervention that best suits each child's situation.

To accomplish this, professionals utilize a series of tools and techniques such as movements, exercises, breathing control, strength-building exercises, postural aids, among others, but the main techniques that will always be used are games and stimulation of movement learning. This Postgraduate Diploma provides specific and advanced knowledge of Physiotherapy in Early Care. Throughout these months, students will acquire the knowledge required to work in Early Childhood Care, taking a deeper look into normal and pathological development in children, child pathology, assessment and treatment

Likewise, this Postgraduate Diploma seeks to guide physiotherapists through the functions that are carried out in Early Care, as well as to provide them with therapeutic tools and essential knowledge that is useful for professional work.

The teaching staff have extensive experience and training, both on a national and international scale, in the field of child physiotherapy, which positions this Postgraduate Diploma above others in the market, so graduates will have an excellent reference. Both the course director and the professors will put their knowledge and professional experience at students' disposal in a practical manner. Therefore, this course will swiftly provide you with knowledge on all aspects related to Physiotherapy in Early Care.

A 100% online Postgraduate Diploma that provides students with the opportunity to study 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 with all the guarantees to establish professionals in a highly demanded field.

This **Postgraduate Diploma in Physiotherapy in Early Care** offers professionals 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
- ♦ A highly visual teaching system, supported by graphic and schematic contents that are 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 the program



*A unique opportunity to specialize and stand out in a highly in-demand sector for professionals”*



“*Cutting-edge education created to propel you toward greater competitiveness in the job market”*

The program’s teaching staff includes professionals from the sector who contribute their work 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 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.

*A comprehensive program created for physiotherapy professionals, which will allow you to balance your studies with other professional responsibilities and access the course from any location with total flexibility.*

*Its methodological design provides students with complementary document banks to supplement the lessons.*

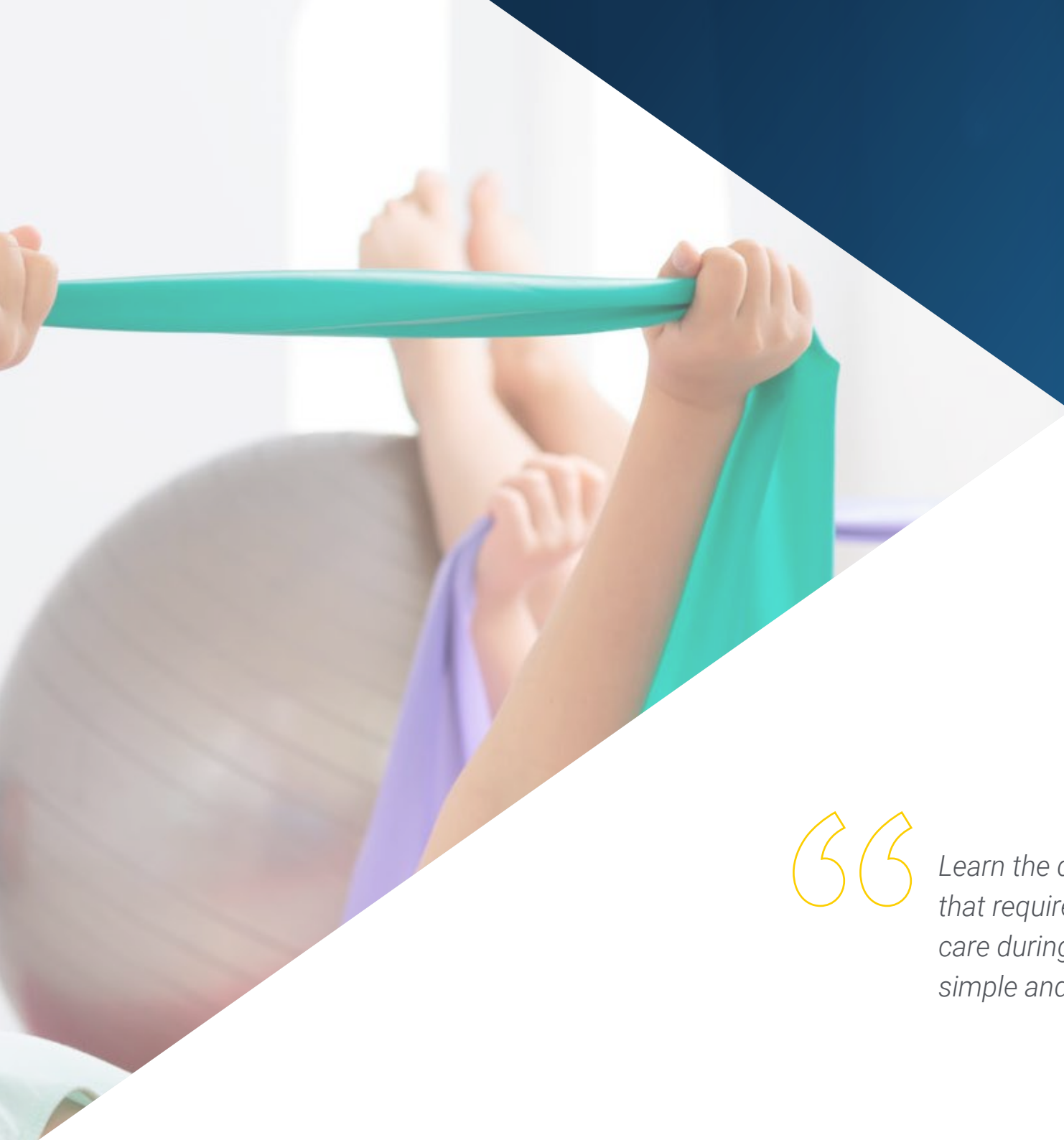


# 02 Objectives

This Postgraduate Diploma has been created from start to finish to be a tool for personal and professional growth for physicians by gaining deeper insight into the key aspects of medical advances in Early Care Physiotherapy. The knowledge poured into the syllabus will provide professionals with a global perspective and comprehensive training to achieve the proposed objectives. Develop the ability to establish a diagnosis by recognizing respiratory pathology for its subsequent treatment. To this end, TECH establishes a series of general and specific objectives to fulfill future graduates' expectations.







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*Learn the different pathologies that require physiotherapeutic care during childhood in a simple and practical way”*



## General Objectives

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- ♦ 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 Childhood Physiotherapy
- ♦ Gain detailed knowledge of frequent childhood pathologies
- ♦ Recognize methods, techniques and tools used in Early Care treatments

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*Highly specialized objectives in a qualification created to train the best professionals in Physiotherapy in Early Care”*





## Specific Objectives

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### Module 1. Normal and Pathological Child Development

- ◆ Learn about intrauterine infant development
- ◆ Gain in-depth knowledge of motor development in children 0-6 years old
- ◆ Outline the development of laterality and play in children
- ◆ Identify normal and pathological reflexes in children
- ◆ Have detailed knowledge of the cognitive and verbal development of children

### Module 2. Pathologies in Childhood

- ◆ Understand the main pathologies in pediatric patients (the cause, incidence and development of disease)
- ◆ Lay out the factors (prenatal, perinatal and postnatal) that may pose a risk to normal infant development
- ◆ Identify characteristic clinical signs and warning signs
- ◆ Address key elements in therapeutic intervention

### Module 3. Childhood cerebral palsy (CCP) and syndromes

- ◆ Deeply understand what cerebral palsy is, its causes and incidence
- ◆ Know how to classify the type and level of cerebral palsy
- ◆ Specialize in spasticity and its main medical treatments
- ◆ Recognize ataxia, athetosis and hypotonia
- ◆ Explain the diversity of associated problems presented by patients with CCP
- ◆ Recognize epileptic seizures and the most common types of musculoskeletal disorders
- ◆ Gain a deep understanding of what Down syndrome is and how it affects children with cerebral palsy
- ◆ Recognize other syndromes such as Prader-Willi syndrome, Rett syndrome, etc.



03

# Structure and Content

The syllabus has been designed based on the principles of Physiotherapy in Early Care, following the guidelines proposed by the teaching team. As such, the syllabus consists of modules that offer a broad perspective of the treatments and pathologies suffered by infants. From module 1, students will see their knowledge broadened, which will promote their professional development, knowing that they can count on the support of a team of experts.





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*Develop the skills a physiotherapist needs to identify the main pathologies in pediatric patients with this Postgraduate Diploma”*

## Module 1. Normal and Pathological Child Development

- 1.1. Intrauterine Development
- 1.2. The Term Infant and Its Development
  - 1.2.1. Neonate Classification
  - 1.2.2. Morphological Characteristics
  - 1.2.3. Normal Reactions
- 1.3. Child Development from 0 to 12 Months Old
  - 1.3.1. Normal Child Development from 0 to 12 Months Old
  - 1.3.2. Child Attitude and Motor Activity from 0 to 12 Months Old
  - 1.3.3. Child Stimulus Response from 0 to 12 Months Old
  - 1.3.4. Child Manipulation from 0 to 12 Months Old
  - 1.3.5. Child Warning Signs from 0 to 12 Months Old
  - 1.3.6. Pathological Child Development from 0 to 12 Months Old
  - 1.3.7. Child Pathologies from 0 to 12 Months Old
- 1.4. Child Development from 12 Months to 3 Years Old
  - 1.4.1. Normal Child Development from 12 Months to 3 Years Old
  - 1.4.2. Child Attitude and Motor Activity from 12 Months to 3 Years Old
  - 1.4.3. Child Stimuli Response from 12 Months to 3 Years Old
  - 1.4.4. Child Manipulation from 12 Months to 3 Years Old
  - 1.4.5. Child Warning Signs from 12 Months to 3 Years Old
  - 1.4.6. Pathological Child Development from 12 Months to 3 Years Old
  - 1.4.7. Child Pathologies from 12 Months to 3 Years Old
- 1.5. Child Development from 3 to 6 Years Old
  - 1.5.1. Normal Child Development from 3 to 6 Years Old
  - 1.5.2. Child Attitude and Motor Activity from 3 to 6 Years Old
  - 1.5.3. Child Stimulus Response from 3 to 6 Years Old
  - 1.5.4. Child Manipulation from 3 to 6 Years Old
  - 1.5.5. Child Warning Signs from 3 to 6 Years Old
  - 1.5.6. Pathological Child Development from 3 to 6 Years Old
  - 1.5.7. Child Pathologies from 3 to 6 Years Old

- 1.6. Child Play Development
  - 1.6.1. Child Play Development from 0 to 6 Months Old
  - 1.6.2. Child Play Development from 6 to 12 Months Old
  - 1.6.3. Child Play Development from 1 to 2 Years Old
  - 1.6.4. Child Play Development from 2 to 3 Years Old
  - 1.6.5. Child Play Development from 3 to 4 Years Old
  - 1.6.6. Child Play Development from 4 to 5 Years Old
  - 1.6.7. Child Play Development from 5 to 6 Years Old
- 1.7. Laterality Development
- 1.8. Normal and Pathological Reflexes
  - 1.8.1. Neurological Assessment: Structure and Content
  - 1.8.2. Primitive Reflexes: Definition, Function and Explanation
  - 1.8.3. Postural Ontogenesis
- 1.9. Relationship between Motor Skills and Other Developmental Areas
- 1.10. Cognitive and Verbal Development in Children

## Module 2. Pathologies in Childhood

- 2.1. Critical Periods in Child Development and Cause of Childhood Pathology
- 2.2. Neuromuscular Diseases
  - 2.2.1. Etiology and Incidence
  - 2.2.2. Types
  - 2.2.3. Treatment
  - 2.2.4. Physiotherapy Treatment
- 2.3. Spinal Muscular Atrophy (SMA)
  - 2.3.1. Etiology and Incidence
  - 2.3.2. Types
  - 2.3.3. Treatment
  - 2.3.4. Physiotherapy Treatment
  - 2.3.5. Genetic Therapy
- 2.4. Congenital Muscular Torticollis and Plagiocephaly
  - 2.4.1. Etiology and Incidence
  - 2.4.2. Clinical Manifestations
  - 2.4.3. Treatment
  - 2.4.4. Physiotherapy Treatment



- 2.5. Spina Bifida and Obstetric Brachial Palsy
  - 2.5.1. Etiology and Incidence
  - 2.5.2. Clinical Manifestations
  - 2.5.3. Treatment
  - 2.5.4. Physiotherapy Treatment
- 2.6. Preterm Infants
- 2.7. Achondroplasia
  - 2.7.1. Etiology and Incidence
  - 2.7.2. Clinical Manifestations
  - 2.7.3. Treatment
  - 2.7.4. Physiotherapy Treatment
- 2.8. Arthrogryposis
  - 2.8.1. Etiology and Incidence
  - 2.8.2. Clinical Manifestations
  - 2.8.3. Treatment
  - 2.8.4. Physiotherapy Treatment
- 2.9. Hearing and Visual Impairment
- 2.10. Congenital Heart Pathologies
  - 2.10.1. Etiology and Incidence
  - 2.10.2. Clinical Manifestations
  - 2.10.3. Treatment
  - 2.10.4. Physiotherapy Treatment

### Module 3. Childhood Cerebral Palsy (CCP) and Syndromes

- 3.1. CCP
  - 3.1.1. Etiology and Incidence
- 3.2. CCP Classification
  - 3.2.1. Classification According to Muscle Tone and Posture
    - 3.2.1.1. Spastic CCP
    - 3.2.1.2. Dyskinesia or Athetoid CCP
    - 3.2.1.3. Spastic CCP
    - 3.2.1.4. Mixed CCP
  - 3.2.2. Classification by Topographical Criteria
    - 3.2.2.1. Hemiplegia
    - 3.2.2.2. Paraplegia
    - 3.2.2.3. Monoplegia
    - 3.2.2.4. Diplegia
    - 3.2.2.5. Tetraplegia
  - 3.2.3. *Gross Motor Classification System*
- 3.3. Spasticity and Medical Treatments
  - 3.3.1. Causes of Spasticity
  - 3.3.2. Difference between Spasticity and Hypertonia
  - 3.3.3. Consequences of Spasticity
  - 3.3.4. Spasticity Rating Scales
  - 3.3.5. Medical-Pharmacological Treatment of Spasticity
  - 3.3.6. Physiotherapeutic Approach to Spasticity
- 3.4. Athetosis, Ataxia and Hypotonia
- 3.5. Associated Problems in CCP
- 3.6. Musculoskeletal Alterations
- 3.7. Epileptic Seizures
- 3.8. Down Syndrome
  - 3.8.1. Etiology and Incidence
  - 3.8.2. Clinical Manifestations
  - 3.8.3. Treatment
- 3.9. Prader-Willi, Angelman and Turner Syndromes
  - 3.9.1. Etiology and Incidence
  - 3.9.2. Clinical Manifestations
  - 3.9.3. Treatment
- 3.10. Other Syndromes
  - 3.10.1. Etiology and Incidence
  - 3.10.2. Clinical Manifestations
  - 3.10.3. Treatment

# 04

# 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 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.



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*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.*



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

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.





# 05 Certificate

The Postgraduate Diploma in Physiotherapy in Early Care guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Diploma issued by TECH Technological University.



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

This **Postgraduate Diploma in Physiotherapy in Early Care** is 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 Diploma** issued by **TECH Technological University** via tracked delivery\*.

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

Title: **Postgraduate Diploma in Physiotherapy in Early Care**

Official Number of Hours: **450 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  
development language  
virtual classroom



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