

# Postgraduate Certificate

Physiotherapy in Normal and  
Pathological Development  
in Early Pediatric Care



## Postgraduate Certificate Physiotherapy in Normal and Pathological Development 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.techtute.com/in/physiotherapy/postgraduate-certificate/physiotherapy-normal-pathological-development-early-pediatric-care](http://www.techtute.com/in/physiotherapy/postgraduate-certificate/physiotherapy-normal-pathological-development-early-pediatric-care)

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# 01

# Introduction

Treating children is not the same as treating adults. The former go through periods of growth in which their body and brain capacities undergo constant change. Therefore, they need specialists who know all their areas and stages of development, as well as the pathologies that may impede their development in adult life. For this reason, the Postgraduate Certificate in Physiotherapy in Normal and Pathological Development in Early Pediatric Care focuses on building the professional skills needed to specialize in the field, learning how to address some of the most common pathologies in infancy and how to implement the different techniques and treatments.





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*Specialize in Physiotherapy in Normal and Pathological Development in children focusing on the skills you need to grow professionally”*

Child physiotherapy seeks to provide treatment and care to newborns, children and adolescents who may require it. It acts on health problems in childhood and uses a large number of techniques to improve their quality of life. It also seeks to educate parents in order to give continuity to the different rehabilitation exercises that the child needs to perform at home.

Based on the above, it is essential to have a program that encourages professionals to continue their studies in the field. With this in mind, the Postgraduate Certificate in Physiotherapy in Normal and Pathological Development 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.

Throughout this program, students will address normal 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 normal reflexes that we should find in each of the stages of development and the pathological reflexes will also be explained.

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 a reference of excellence. 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 Normal and Pathological Development in Early Pediatric Care.

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 accord with the current times and all the guarantees to position Physiotherapists in a highly demanded field.

This **Postgraduate Certificate in Physiotherapy in Normal and Pathological Development 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



*Address normal and pathological development in children, from intrauterine development through late childhood”*

“ *Cutting edge training 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 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.

*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.*

*A Postgraduate Certificate created for physiotherapy professionals, which will allow you to balance it with other responsibilities and gain access from any location with total flexibility.*



# 02 Objectives

This Postgraduate Certificate has been created from start to finish to be a tool for personal and professional growth for physiotherapists by gaining deeper insight into the key medical advances in Physiotherapy in Normal and Pathological Development in Early Pediatric Care. The knowledge poured into the syllabus will provide professionals with a global perspective and comprehensive training to achieve the the proposed objectives. You will fully develop skills to identify the stages of development of babies in the womb, as well as the development of children according to their age and all the aspects you need to continue growing professionally. To this end, TECH establishes a series of general and specific objectives to fulfill future graduates' expectations.







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*A comprehensive and practical Postgraduate Certificate that will allow you to learn everything you need to work as a physiotherapist in early care in a realistic and direct 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 Care Physiotherapy
- ◆ Gain detailed knowledge of frequent childhood pathologies
- ◆ Recognize methods, techniques and tools used in Early Care treatments





## Specific Objectives

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- ◆ Learn 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



*Highly specialized objectives in a qualification created to train the best professionals in Physiotherapy in Normal and Pathological Development in Early Pediatric Care”*

# 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 on this program. Thus, the curriculum consists of modules that offer a broad perspective of the changes children undergo while they are developing. From module 1, students will see their knowledge broadened, which will enable them to develop professionally, knowing that they can count on the support of a team of experts.





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*A comprehensive syllabus that will gradually take you through each and every one of the lessons that any professional physiotherapist needs”*

## 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

“A comprehensive teaching program, structured in well developed units, oriented toward high impact learning”

# 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.

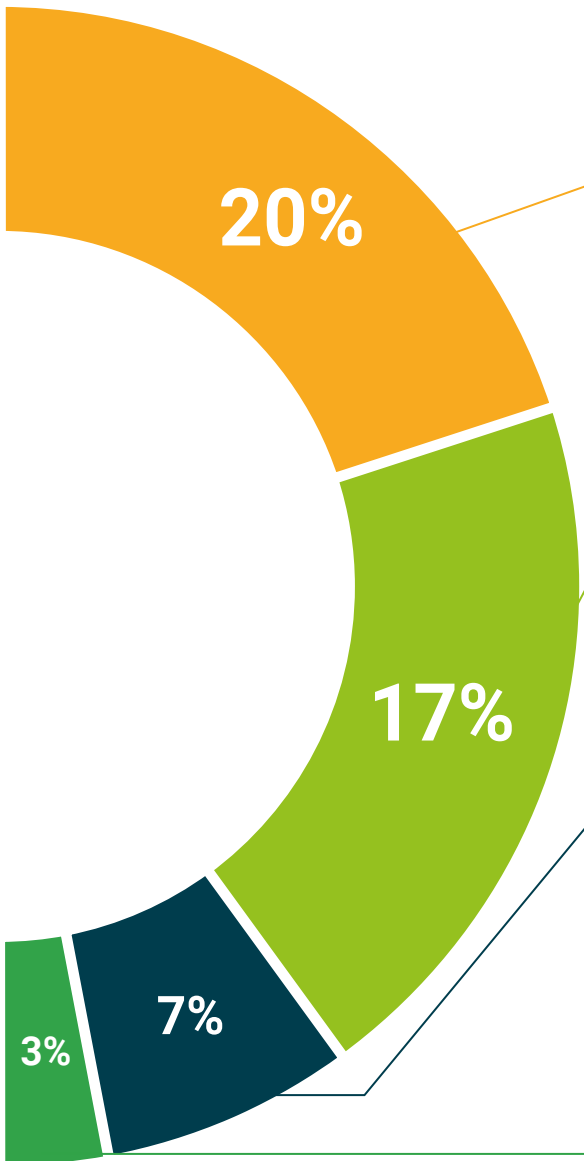
This unique multimedia content presentation training system was awarded by Microsoft as a "European Success Story".



#### 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 Certificate in Physiotherapy in Normal and Pathological Development in Early Pediatric Care guarantees students, in addition to the most rigorous and up to date education, access to a Postgraduate Certificate issued by TECH Technological University.





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*Successfully complete this training program and receive your diploma without travel or laborious paperwork”*

This **Postgraduate Certificate in Physiotherapy in Normal and Pathological Development in Early Pediatric 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 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 Normal and Pathological Development in Early Pediatric Care**  
**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.

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personalized service innovation

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virtual classroom

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