

# Postgraduate Certificate

## Allergies, Rheumatology and Nephrourology in Pediatrics



## Postgraduate Certificate Allergies, Rheumatology and Nephrourology in Pediatrics

- » Modality: online
- » Duration: 12 weeks
- » Certificate: TECH Technological University
- » Dedication: 16h/week
- » Schedule: at your own pace
- » Exams: online

Website: [www.techtute.com/us/medicine/postgraduate-certificate/allergies-rheumatology-nephrourology-pediatrics](http://www.techtute.com/us/medicine/postgraduate-certificate/allergies-rheumatology-nephrourology-pediatrics)

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# 01

# Introduction

Pathologies related to Allergy, Rheumatology and Nephrourology are very common in pediatric age patients. Since they are in a developmental stage, early diagnosis of these conditions is essential, thus avoiding complications during the adult phase. For this reason, it is important that pediatricians continue to update their knowledge every day, and this TECH program will provide them with the necessary tools for the detection of urethral, renal or orthopedic diseases in childhood, always in line with the latest scientific advances. An essential program taught 100% online.





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*Obtain with this Postgraduate Certificate an advanced preparation in the treatment of allergic, rheumatologic or nephrourologic disorders that may occur in childhood”*

Rheumatic diseases usually manifest themselves through musculoskeletal symptoms, although sometimes they appear in the patient with other signs, such as skin lesions, persistent fever, uveitis or visceromegaly. Similarly, child nephrology involves a wide range of disorders that affect the urinary tract and kidneys. Some of them are Chronic or Acute Renal Insufficiency, autoimmune diseases, Urinary Incontinence, urinary tract infections or Arterial Hypertension, among other bothersome conditions.

In this sense, Primary Care plays an essential role in the early diagnosis and treatment of these pathologies, being even more important in the area of Pediatrics. That is why this program will provide physicians with the latest information on these closely related fields. Therefore, pediatricians will obtain a high level of training in possible alterations of the urinary tract, as well as in the detection of localized malformations in the renal system.

In addition, the students will examine the procedure to be followed in case of urinary tract infection according to the child's age and individual characteristics, also investigating possible alterations of the locomotor system. In fact, they will go through a complete tour of the osteomyoarticular system and rheumatology in general, locating the causes of back and lower limb pain or gait disorders by means of a thorough examination of the back and lower limb pain and gait disorders through a thorough examination of the feet.

This way, with just a device with an Internet connection, they will enjoy a necessary program that is perfectly compatible with their healthcare activity, given its online nature. In addition, they will have an advanced Virtual Campus with interactive resources on the subject.

This **Postgraduate Certificate in Allergies, Rheumatology and Nephrourology in Pediatrics** contains the most complete and up-to-date scientific program on the market. The most important features include:

- ♦ The development of case studies presented by experts in Allergies, Rheumatology and Nephrourology in Pediatrics
- ♦ The graphic, schematic, and practical contents with which they are created, provide scientific and practical information on the disciplines that are essential for professional practice
- ♦ Practical exercises where the self-assessment process can be carried out to improve learning
- ♦ Its special emphasis on innovative methodologies
- ♦ 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



*A Postgraduate Certificate with which you will identify possible alterations of the urinary tract, as well as malformations of the renal system”*

“

*Thanks to this program, you will elaborate the course of action in case of a urinary infection according to the age of the child and their individual characteristics”*

*Identify with this program possible alterations of the child's locomotor system, evaluating the best treatment in this regard.*

*Master the application of corrective measures to reduce gait disorders.*

The program's teaching staff includes professionals from the field who contribute their work experience to this educational 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 education programmed to learn 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 students will be assisted by an innovative interactive video system created by renowned and experienced experts.



# 02 Objectives

The design of the program of this Postgraduate Certificate allows a high level of preparation in the identification of the basic characteristics of allergic processes, as well as in the most frequent pathologies of rheumatologic and nephrourologic etiology in the child patient. In the same way, the objectives are also oriented to the revision of the diagnostic procedures and the appropriate therapeutic regimen in each case. All this will go hand in hand with the latest educational technologies, so that pediatricians will be able to address any scenario that may arise in the future in these areas.







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*Give your career a boost by updating your knowledge on Nephritic Syndrome and Glomerulonephritis to improve your care methodologies”*



## General Objectives

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- Update the physician in advanced life support and diagnostic and therapeutic techniques for pediatric patients with urgent pathology
- Expand knowledge in the provision of emergency care to improve the child's prognosis and family care
- Review the main pathologies in children and adolescents and the advances made in them



*Achieve the objectives of the program to evaluate which are the ideal treatments according to the etiological agent causing the infection"*





## Specific Objectives

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- ♦ Identify possible alterations of the urinary tract, as well as malformations of the renal system
- ♦ Describe the course of action in case of a urinary infection according to the age of the child and their individual characteristics
- ♦ Identify the cause of hematuria in childhood in order to establish a proper diagnosis and implement the correct treatment
- ♦ Identify possible alterations in the locomotor system in children
- ♦ Establish the most appropriate corrective treatment in the case of an established pathology
- ♦ Identify the causes of back pain and lower limb pain
- ♦ Identify walking abnormalities by thorough examination of the feet
- ♦ Apply corrective methods to reduce walking abnormalities
- ♦ Describe the main rheumatological alterations that can occur in childhood
- ♦ Establish a differential diagnosis with other non-rheumatological pathologies
- ♦ Apply appropriate treatment according to the etiological agent causing the infection

# 03

## Structure and Content

The syllabus of the Postgraduate Certificate provides a broad and global vision of Allergy, Rheumatology and Nephrourology, providing the most updated information for the approach with treatments that incorporate the latest scientific advances. Therefore, by means of interactive summaries, complementary readings, case analysis or videos, students will broaden their knowledge of the content while enjoying a more natural educational cycle than in traditional teaching.





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*Through interactive summaries, complementary readings, case studies or videos, they will delve into the broad scientific knowledge of the program while enjoying a more natural educational cycle than in traditional teaching”*

### Module 1. Genital urology nephrology

- 1.1. Urinary Infections
- 1.2. Infantile Vulvovaginitis
- 1.3. Cryptorchidism
- 1.4. Ambiguous Genitalia and Genital Malformations
- 1.5. Hematuria
- 1.6. Nephritic Syndrome and Glomerulonephritis
- 1.7. Nephrotic Syndrome
- 1.8. Polycystic Kidneys
- 1.9. Hypospadias and Urethral Diseases in Childhood
- 1.10. Chronic Kidney Disease in Childhood

### Module 2. Osteomyoarticular System and Rheumatology

- 2.1. Study of the Child with Arthralgia or Arthritis
- 2.2. Juvenile Rheumatoid Arthritis
- 2.3. Septic Arthritis
- 2.4. Osteomyelitis
- 2.5. Most Common Orthopedic Diseases in Childhood
- 2.6. Assessment of Children's Feet
- 2.7. Hip Pathology by Age
- 2.8. Podiatry and Walking Disorders
- 2.9. Pediatric Systemic Lupus Erythematosus Erythematosus
- 2.10. Juvenile Spondyloarthropathies





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*Juvenile rheumatoid arthritis, septic arthritis or osteomyelitis are some of the pathologies that will be examined in the syllabus to deepen their 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. Specialists 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 in the physician's professional 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. Students who follow this method not only achieve the assimilation of concepts, but also a development of their mental capacity, through exercises that evaluate real situations and the application of knowledge.
2. Learning is solidly translated into practical skills that allow the student 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.

*Professionals will learn through real cases and by resolving 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, more than 250,000 physicians have been trained with unprecedented success in all clinical specialties regardless of surgical load. 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 specialization, developing a critical mindset, defending arguments, and contrasting opinions: a direct equation to 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 TECH's 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.



#### Surgical Techniques and Procedures on Video

TECH introduces students to the latest techniques, the latest educational advances and to the forefront of current medical techniques. 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 the videos as many times as you like.



#### 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 exclusive educational system for presenting multimedia content 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 Allergies, Rheumatology and Nephrourology in Pediatrics 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 program and receive your university qualification without having to travel or fill out laborious paperwork”*

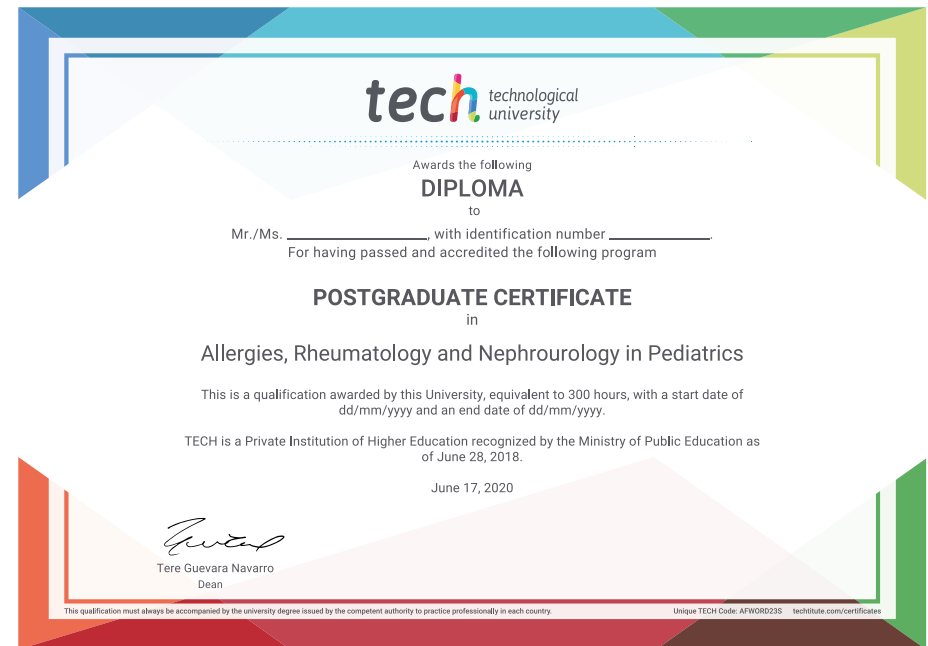
This **Postgraduate Certificate in Allergies, Rheumatology and Nephrourology in Pediatrics** contains the most complete and up-to-date scientific program on the market.

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

The diploma 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 Allergies, Rheumatology and Nephrourology in Pediatrics**

Official N° of Hours: **300 h.**



\*Apostille Convention. In the event that the student wishes to have their paper diploma issued with an apostille, TECH EDUCATION will make the necessary arrangements to obtain it, at an additional cost.



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