

# Postgraduate Certificate

## Nutrition and Non-Digestive Pathologies for Pediatric Doctors





## Postgraduate Certificate Nutrition and Non-Digestive Pathologies for Pediatric Doctors

- » 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/nutrition-non-digestive-pathologies-pediatric-doctors](http://www.techtute.com/us/medicine/postgraduate-certificate/nutrition-non-digestive-pathologies-pediatric-doctors)

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# 01

# Introduction

There are pediatric pathologies that, at first glance, do not seem to be related to nutrition, but patients can feel remarkable improvements by consuming a balanced diet adapted to their nutritional requirements. In this context, the nutritional education of pediatricians is essential to offer a more personalized attention to their patients. For this reason, at TECH we have designed this complete academic program aimed at increasing your knowledge in this field.





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*Advise your patients on the most appropriate diets according to their pathologies and you will notice how their symptoms and quality of life will improve".*

In pediatric pathology, nutrition intervenes as an etiological factor and as a complication of other diseases. Therefore, specialization in this field is essential to improve the symptoms of patients attending to their nutritional characteristics and needs.

In order to provide pediatricians with the necessary skills in this field, this Postgraduate Certificate in Nutrition and Non-Digestive Pathologies for Pediatric Doctors has been designed, a program that allows physicians to specialize in the field of child nutrition for pediatrics in areas of special interest such as inborn errors of metabolism, nutrition in oncological children and the mechanisms for good bone health in childhood.

This program offers the student the possibility of expanding and updating knowledge, using the latest educational technology. Thus, in this program the student will have the most advanced didactic resources and will have the opportunity to take a teaching program that brings together the most in-depth knowledge in the field, where a group of teachers of high scientific rigor and extensive international experience offers the most complete and up-to-date information on the latest advances and techniques in nutrition and non-digestive pathologies in childhood.

A high academic level education with which the student will be able to acquire superior knowledge in the subject. And all this in a 100% online format, which will allow you to combine your study time with the rest of your daily obligations.

This **Postgraduate Certificate in Nutrition and Non-Digestive Pathologies for Pediatric Doctors** contains the most complete and up-to-date scientific program on the market.

The most important features include:

- The development of clinical cases presented by experts in nutrition and non-digestive pathologies
- Its graphic, schematic and practical contents provide scientific and assistance information on those disciplines essential for the professional practice
- Practical exercises where the self-assessment process can be carried out to improve learning
- An algorithm-based interactive learning system for decision-making in the clinical situations presented throughout the course
- Its special emphasis on research methodologies in nutrition and non-digestive pathologies
- Theoretical lessons, questions to the expert, forums for discussion of controversial issues and individual reflection papers
- Content that is accessible from any fixed or portable device with an Internet connection



*Take the opportunity to learn about the latest advances in this field in order to apply it to your daily practice"*

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*This Postgraduate Certificate is the best investment you can make in the selection of an advanced program for two reasons: in addition to upgrading your knowledge in Nutrition and Non-Digestive Pathologies for Pediatric Doctors, you will obtain a diploma from TECH Technological University"*

Its teaching staff includes professionals from the field of pediatric nutrition, who contribute their work experience to this training, as well as renowned specialists from reference 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 learning experience designed to prepare for real-life situations.

This program is designed around Problem-Based Learning, whereby the physician must try to solve the different professional practice situations that arise throughout the program. For this purpose, the specialist will be assisted by an innovative interactive video system created by renowned and experienced experts in nutrition and non-digestive pathologies in childhood.

*Learn about the latest advances in nutrition and non-digestive pathologies in childhood to be able to perform a quality praxis.*

*Improve your knowledge in nutrition and non-digestive pathologies in childhood through this program, where you will find the best didactic material with real clinical cases.*



# 02 Objectives

The main objective of the program is the development of theoretical-practical learning, so that the pediatrician can master in a practical and rigorous way nutrition and non-digestive pathologies in childhood.



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*This Postgraduate Certificate will allow you to improve your knowledge in nutrition and non-digestive pathologies in childhood with the use of the latest educational technology, in order to contribute with quality and security to the decision making process"*



## General Objectives

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- Improve the physician's knowledge of new trends in child nutrition both in health and in pathological situations
- Promote work strategies based on the practical knowledge of the new trends in nutrition and its application to child pathologies, where nutrition plays a fundamental role in treatment
- Encourage the acquisition of technical skills and abilities, through a powerful audiovisual system, and the possibility of development through online simulation workshops and/or specific education
- Encourage professional stimulation through continuous education and research



*Take the step to get up-to-date on the latest developments in Nutrition and Non-Digestive Pathology in Childhood for Nurses”*





## Specific Objectives

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- ◆ Identify the repercussion that a pregnant and lactating mother's nutrition has on the intrauterine growth and evolution of new-borns and infants
- ◆ Describe the nutritional requirements in the different periods of childhood
- ◆ Calculate child and adolescent athlete dietary needs and risks
- ◆ Reflect on new trends and models in infant feeding
- ◆ Reflect and identify risk factors in school and adolescent nutrition
- ◆ Identify eating behavior disorders
- ◆ Explain the treatment of dyslipidemias and the role that nutrition plays in their genesis and treatment
- ◆ Manage diabetic children's diet
- ◆ Assess the nutritional support of children with cancer in different situations
- ◆ Reflect on the role of nutrition in autistic children
- ◆ Review the rationale for dietary support of acute diarrhea
- ◆ Describe the management of nutritional support in inflammatory diseases
- ◆ Reflect on the relationship between constipation and infant nutrition
- ◆ Define the dietary management of children with nephropathy
- ◆ Review the dietary management of oral cavity pathologies in children
- ◆ Explain the implications that nutrition can have in the treatment of liver diseases

03

# Course Management

Our teaching team, experts in Clinical Nutrition, are well known in the profession and are professionals with years of teaching experience who have come together to help you boost your career. To this end, they have developed this Professional Master's Degree with the latest developments in the field, that will allow you to train and enhance your skills in this sector.





*Learn the latest advances in clinical nutrition from leading professionals"*

## International Guest Director

Lara Al-Dandachi is one of the few registered dietitians in California, and the rest of the United States, to hold a triple certification in Diabetes Care specialty CDES, Advanced Diabetes Management BC-ADM and in Obesity with Subspecialty Weight Management (CSOWM). Her work as a clinical nutritionist has led her to lead projects such as UCLA Health's Gonda Diabetes Prevention Program, which has received special recognition from the Center for Disease Control and Prevention (CDC) and has allowed her to work with multiple cohorts.

In addition, she coordinates the Obesity Reduction Program (PRO) as Director of Nutrition. From that group, she is in charge of developing and updating the professional curriculum for overweight education in adults and adolescents, as well as training new dietitians. In all of these settings, she counsels her patients on how to improve their lifestyle by incorporating healthy eating habits, increased physical activity and the fundamentals of Integrative Medicine.

At the same time, Al-Dandachi continually seeks to stay at the forefront of clinical research in Nutrition. She has attended the Harvard Blackburn Course in Obesity Medicine twice. In those participations, she has received the Certificate of Training in Pediatric and Adult Obesity through the Commission on Dietetic Registration (CDR), the accrediting agency of the American Academy of Nutrition and Dietetics.

Also, her mastery of this healthcare field allows her to provide personalized care to patients with rare conditions such as latent Autoimmune Diabetes in adulthood. She has also worked in her Public Health internship as a volunteer, collaborating with underprivileged populations in initiatives for HIV education and prevention, the Head Start program , among others.



## Ms. Al-Dandachi, Lara

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- ♦ Nutrition Director of the Obesity Reduction Program at UCLA Health, California, United States
- ♦ Clinical Dietitian with CareMore Health Plan
- ♦ Director of Nutrition at Hollywood Presbyterian Medical Center
- ♦ Clinical Dietitian at Sodexo Health Care Services
- ♦ Clinical Dietitian at Beverly Hospital
- ♦ Master's Degree in Public Health at Loma Linda University
- ♦ Bachelor of Science in Nutrition Science and Dietetics at the American University of Beirut

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*Thanks to TECH, you will be able to learn with the best professionals in the world”*

## Management



### Ms. Auni3n Lavar3as, Mar3a Eugenia

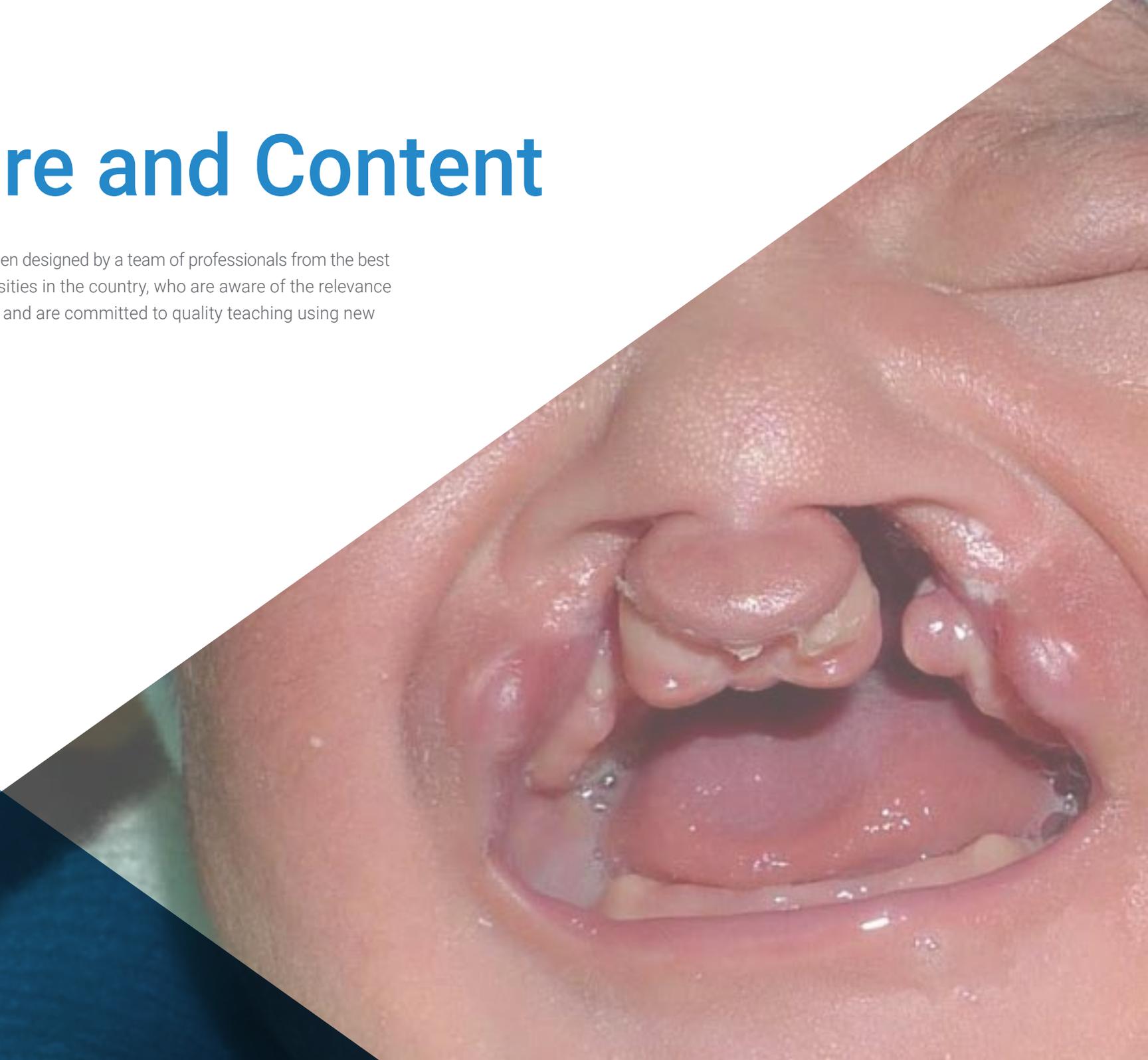
- ♦ Pharmacist and Clinical Nutrition Expert
- ♦ "Author of the reference book in the field of Clinical Nutrition "Dietary Management of Overweight in the Pharmacy Office". (Panamericana Medical Publishing House)
- ♦ Pharmacist with extensive experience in the public and private sector
- ♦ Pharmacist in Valencia Pharmacy
- ♦ Pharmacy Assistant in the British pharmacy and health and beauty retail chain Boots, UK
- ♦ Degree in Pharmacy and Food Science and Technology. University of Valencia
- ♦ Head of Postgraduate Certificate "Dermocosmetics in the Pharmacy Office"



04

# Structure and Content

The structure of the contents has been designed by a team of professionals from the best educational institutions and universities in the country, who are aware of the relevance of up-to-date, innovative education and are committed to quality teaching using new educational technologies.



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*A comprehensive teaching program, structured in well-developed teaching units, oriented towards efficient and swift learning that is compatible with your personal and professional life"*

## Module 1. Nutrition and Non-Digestive Pathologies for Pediatric Doctors

- 1.1. Feeding Difficulties and Disorders in Children
  - 1.1.1. Physiological Aspects
  - 1.1.2. Psychological Aspects
- 1.2. Eating Disorders
  - 1.2.1. Anorexia
  - 1.2.2. Bulimia
  - 1.2.3. Others
- 1.3. Inborn Errors of Metabolism
  - 1.3.1. Principles for Dietary Treatment
- 1.4. Nutrition in Dyslipidemias
  - 1.4.1. Nutritional Mechanisms to Prevent Dyslipidemias
  - 1.4.2. Nutritional Approaches for Treating Dyslipidemias
- 1.5. Nutrition in Diabetic Children
  - 1.5.1. Repercussions of Diabetes on the Child's Nutrition
  - 1.5.2. Mechanisms to Avoid Related Malnutrition
- 1.6. Nutrition in Autistic Children
  - 1.6.1. Repercussions of These Alterations on the Child's Nutrition
  - 1.6.2. Mechanisms to Avoid Related Malnutrition
- 1.7. Nutrition in Children with Cancer
  - 1.7.1. Repercussions of Disease and Treatments in the Child's Nutrition
  - 1.7.2. Mechanisms to Avoid Related Malnutrition
- 1.8. Nutrition in Children with Chronic Pulmonary Pathology
  - 1.8.1. Repercussions of These Alterations on the Child's Nutrition
  - 1.8.2. Mechanisms to Avoid Related Malnutrition
- 1.9. Nutrition in Children with Nephropathy
  - 1.9.1. Repercussions of These Alterations on the Child's Nutrition
  - 1.9.2. Mechanisms to Avoid Related Malnutrition
  - 1.9.3. Special Diets
- 1.10. Nutrition in Children with Food Allergies and/or Intolerances
  - 1.10.1. Special Diets
- 1.11. Childhood and Bone Pathology Nutrition
  - 1.11.1. Mechanisms for Good Bone Health in Childhood





“*A unique, key, and decisive educational experience to boost your professional development*”

05

# 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. Gervas, 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.



06

# Certificate

The Postgraduate Certificate in Nutrition and Non-Digestive Pathologies for Pediatric Doctors guarantees, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate diploma issued by TECH Technological University.





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

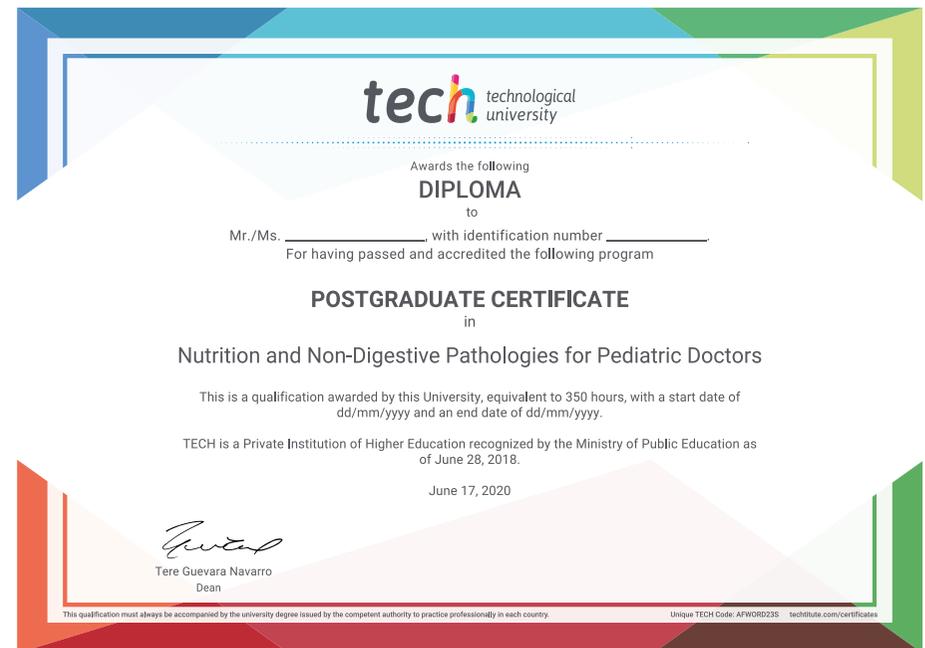
This **Postgraduate Certificate in Nutrition and Non-Digestive Pathologies for Pediatric Doctors** contains the most complete and up-to-date scientific on the market.

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 Nutrition and Non-Digestive Pathologies for Pediatric Doctors**

Official No. of Hours: **350 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.

future  
health confidence people  
education information tutors  
guarantee accreditation teaching  
institutions technology learning  
community commitment  
personalized service innovation  
knowledge presentation  
online training  
development languages  
virtual classroom



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Nutrition and Non-Digestive  
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