

# Postgraduate Diploma

## Pediatric Artificial Nutrition and Hospital Dietetics





## Postgraduate Diploma Pediatric Artificial Nutrition and Hospital Dietetics

- » Modality: online
- » Duration: 6 months
- » Certificate: TECH Global University
- » Accreditation: 17 ECTS
- » Schedule: at your own pace
- » Exams: online

Website: [www.techitute.com/us/nutrition/postgraduate-diploma/postgraduate-diploma-pediatric-artificial-nutrition-hospital-dietetics](http://www.techitute.com/us/nutrition/postgraduate-diploma/postgraduate-diploma-pediatric-artificial-nutrition-hospital-dietetics)

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01

# Introduction

Hospital Dietetics requires the extensive knowledge of nutritionists to advise on the most appropriate foods following the guidelines of patients with digestive pathologies. In this field, Artificial Nutrition is essential in cases where patients are unable to feed themselves. In order to increase the nutritionist's specialization in this field, this very complete program has been designed, with the participation of the main experts in the field.





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*With this Postgraduate Diploma, Acquire an advanced knowledge in Pediatric Artificial Nutrition and Hospital Dietetics and give a plus of professionalism to your daily work”*

There are patients who need Artificial Nutrition to be able to feed themselves, so professionals in charge of their care must have advanced knowledge in this field. However, in recent times there has been an increase in the number of Nutritionists who wish to specialize in this field and, therefore, this specific Diploma has been designed for these professionals, which is also complemented with very complete information on Hospital Dietetics.

Specialization in Nutrition is the essential response of professionals to the care and preventive needs of the population in matters of food and health. In addition, given the limited academic specialization in this area, it is not surprising that nutritionists are interested in the offer of complementary training that will allow them to broaden their knowledge in this field.

This Postgraduate Diploma allows specialization in the field of clinical nutrition in areas of special interest such as nutrigenetics and nutrigenomics, nutrition and obesity, hospital dietetics, and nutritional trends.

On the other hand, one of the main advantages is that it is developed in a 100% online format, so that professionals can decide at any time from where and when to study, self-managing their study hours and combining them with the rest of their daily obligations.

This **Postgraduate Diploma in Pediatric Artificial Nutrition and Hospital Dietetics** contains the most complete and up-to-date scientific program on the market. The most important features include:

- Clinical cases presented by experts in Artificial Nutrition and Hospital Dietetics
- 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 self-assessment can be used to improve learning
- An algorithm-based interactive learning system for decision-making in the clinical situations presented throughout the course
- Special emphasis on the research methodology used in artificial nutrition and hospital dietetics
- 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



*Improve your knowledge through this program, where you will find the best didactic material with real clinical cases"*

“

*This Postgraduate Diploma is the best investment you can make in the selection of a refresher program for two reasons: in addition to updating your knowledge in Artificial Nutrition and Hospital Dietetics, you will obtain a degree from the leading online university in Spanish: TECH”*

Its teaching staff includes professionals belonging to the field of pediatric nutrition, who bring to this program the experience of their work, as well as recognized 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 nutritionist must try to solve the different professional practice situations that arise throughout the program. For this purpose, students will be assisted by an innovative interactive video system created by renowned and experienced experts in Artificial Nutrition and Hospital Dietetics with extensive experience.

*Increase your decision-making confidence by updating your knowledge with this Postgraduate Diploma.*

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



# 02 Objectives

The main objective of the program is the development of theoretical and practical learning, so that the nutritionist can master in a practical and rigorous way the Artificial Nutrition and Hospital Dietetics.







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*This Postgraduate Diploma will allow you to update your knowledge in Artificial Nutrition and Hospital Dietetics 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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- Update the nurse's knowledge on new trends in human nutrition, in both healthy and 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 qualification
- Encourage professional stimulation through continuous education and research
- Prepare the professional for research into patients with nutritional problems



*Take the step to get up-to-date on the latest developments in Pediatric Artificial Nutrition and Hospital Dietetics for Nurses”*





## Specific Objectives

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### Module 1. New Developments in Food

- ♦ Review the basics of a balanced diet in the different stages of the life cycle, as well as in exercise
- ♦ Manage food databases and composition tables
- ♦ Review the chemical composition of foods, their physicochemical properties, their nutritional value, their bioavailability, their organoleptic characteristics and the modifications they undergo as a result of technological and culinary processes
- ♦ Describe the composition and utilities of new foods
- ♦ Explain basic aspects of food microbiology, parasitology, and toxicology related to food safety
- ♦ Analyze the operation of milk banks
- ♦ Explain the new developments and available evidence on probiotics and prebiotics in infant feeding

### Module 2. Clinical Nutrition and Hospital Dietetics

- ♦ Assess and calculate nutritional requirements in health and disease at any stage of the life cycle
- ♦ Analyze the different methods for assessing nutritional status
- ♦ Interpret and integrate anthropometric, clinical, biochemical, hematological, immunological, and pharmacological data in the patient's nutritional assessment and dietary-nutritional treatment
- ♦ Manage the different types of nutritional surveys to assess food intake
- ♦ Evaluate and prescribe physical activity as a factor involved in nutritional status

### Module 3. Artificial Nutrition in Pediatrics

- ♦ Perform nutritional assessment in Pediatrics
- ♦ Reflect on the role of human milk as a functional food
- ♦ Describe new formulas used in infant feeding
- ♦ Incorporate the different techniques and products of basic and advanced nutritional support related to pediatric nutrition into clinical practice
- ♦ Evaluate and monitor the supervision of children on nutritional support

### Module 4. Infant Malnutrition

- ♦ Predict patients' nutritional risk
- ♦ Early detection and evaluation of quantitative and qualitative deviations from the nutritional balance due to excess or deficiency
- ♦ Identify children at nutritional risk who are eligible for specific support
- ♦ Identify children suffering from malnutrition
- ♦ Describe the correct nutritional support for a malnourished child
- ♦ Classify the different types of malnutrition and their impact on the developing organism
- ♦ Identify the appropriate nutritional therapy for pediatric patients with chronic pulmonary pathology

# 03

# Course Management

The teaching staff has been selected by TECH under very high quality standards, which means that the program will be led by industry specialists with more than 10 years of experience in the industry. In addition, they have designed the structure of the program themselves, applying their knowledge in different disciplines to bring them together in a single program. In addition to this, students will have access to the teachers to resolve their doubts and concerns.





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*Learn about the latest advances in pediatric artificial nutrition and hospital dietetics 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 educational program, structured in well-developed teaching units, oriented towards efficient and swift learning that is compatible with your personal and professional life"*

## Module 1. New Developments in Food

- 1.1. Molecular Foundations of Nutrition
- 1.2. Update on Food Composition
- 1.3. Food Composition Tables and Nutritional Databases
- 1.4. Phytochemicals and Non-Nutritive Compounds
- 1.5. New Food
  - 1.5.1. Functional Nutrients and Bioactive Compounds
  - 1.5.2. Probiotics, Prebiotics, and Synbiotics
  - 1.5.3. Quality and Design
- 1.6. Organic Food
- 1.7. Transgenic Foods
- 1.8. Water as a Nutrient
- 1.9. Food Safety
  - 1.9.1. Physical Hazards
  - 1.9.2. Chemical Hazards
  - 1.9.3. Microbiological Hazards
- 1.10. New Food Labeling and Consumer Information
- 1.11. Phytotherapy Applied to Nutritional Pathologies

## Module 2. Clinical Nutrition and Hospital Dietetics

- 2.1. Management of Hospital Nutrition Units
  - 2.1.1. Nutrition in the Hospital Setting
  - 2.1.2. Food Safety in Hospitals
  - 2.1.3. Planning and Managing Hospital Diets Dietary Code
- 2.2. Hospital Basal Diets
  - 2.2.1. Pediatric Basal Diet
  - 2.2.2. Ovo-Lacto-Vegetarian and Vegan Diet
  - 2.2.3. Diet Adapted to Cultural
- 2.3. Therapeutic Hospital Diets
  - 2.3.1. Uniting Diets
  - 2.3.2. Personalized Menus
- 2.4. Bidirectional Drug-Nutrient Interaction



**Module 3. Artificial Nutrition in Pediatrics**

- 3.1. Concept of Nutritional Therapy in Pediatrics
  - 3.1.1. Evaluation of Patients in Need of Nutritional Support
  - 3.1.2. Indications
- 3.2. General Information about Enteral and Parenteral Nutrition
  - 3.2.1. Enteral Pediatric Nutrition
  - 3.2.2. Parenteral Pediatric Nutrition
- 3.3. Dietary Products Used for Sick Children or Children with Special Needs
- 3.4. Implementing and Monitoring Patients with Nutritional Support
  - 3.4.1. Critical Patients
  - 3.4.2. Patients with Neurological Pathologies
- 3.5. Artificial Nutrition at Home
- 3.6. Nutritional Supplements to Support the Conventional Diet
- 3.7. Probiotics and Prebiotics in Infant Feeding

**Module 4. Infant Malnutrition.**

- 4.1. Childhood Malnutrition and Undernutrition
  - 4.1.1. Psychosocial Aspects
  - 4.1.2. Pediatric Assessment
  - 4.1.3. Treatment and Monitoring
- 4.2. Nutritional Anemias
  - 4.2.1. Other Nutritional Anemias in Childhood
- 4.3. Vitamin and Trace Element Deficiencies
  - 4.3.1. Vitamins
  - 4.3.2. Trace Elements
  - 4.3.3. Detection and Treatment
- 4.4. Fats in Infant Diets
  - 4.4.1. Essential Fatty Acids
- 4.5. Childhood Obesity
  - 4.5.1. Prevention
  - 4.5.2. Impact of Childhood Obesity
  - 4.5.3. Nutritional Treatment

05

# Study Methodology

TECH is the world's first university to combine the **case study** methodology with **Relearning**, a 100% online learning system based on guided repetition.

This disruptive pedagogical strategy has been conceived to offer professionals the opportunity to update their knowledge and develop their skills in an intensive and rigorous way. A learning model that places students at the center of the educational process giving them the leading role, adapting to their needs and leaving aside more conventional methodologies.



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*TECH will prepare you to face new challenges in uncertain environments and achieve success in your career”*

## The student: the priority of all TECH programs

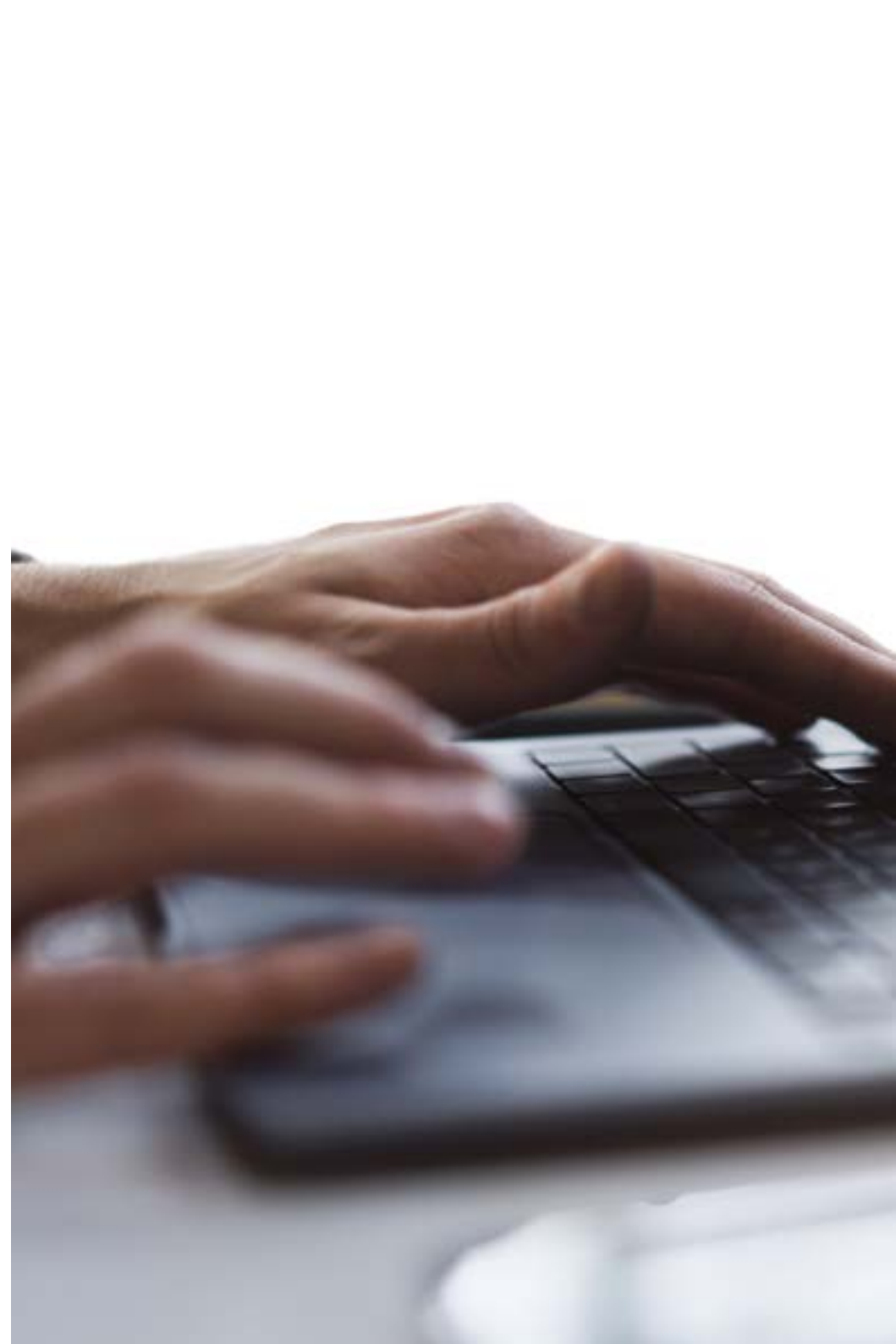
In TECH's study methodology, the student is the main protagonist.

The teaching tools of each program have been selected taking into account the demands of time, availability and academic rigor that, today, not only students demand but also the most competitive positions in the market.

With TECH's asynchronous educational model, it is students who choose the time they dedicate to study, how they decide to establish their routines, and all this from the comfort of the electronic device of their choice. The student will not have to participate in live classes, which in many cases they will not be able to attend. The learning activities will be done when it is convenient for them. They can always decide when and from where they want to study.

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*At TECH you will NOT have live classes  
(which you might not be able to attend)”*





### The most comprehensive study plans at the international level

TECH is distinguished by offering the most complete academic itineraries on the university scene. This comprehensiveness is achieved through the creation of syllabi that not only cover the essential knowledge, but also the most recent innovations in each area.

By being constantly up to date, these programs allow students to keep up with market changes and acquire the skills most valued by employers. In this way, those who complete their studies at TECH receive a comprehensive education that provides them with a notable competitive advantage to further their careers.

And what's more, they will be able to do so from any device, pc, tablet or smartphone.

“*TECH's model is asynchronous, so it allows you to study with your pc, tablet or your smartphone wherever you want, whenever you want and for as long as you want*”

## Case Studies and Case Method

The case method has been the learning system most used by the world's best business schools. Developed in 1912 so that law students would not only learn the law based on theoretical content, its function was also to present them with real complex situations. In this way, they could make informed decisions and value judgments about how to resolve them. In 1924, Harvard adopted it as a standard teaching method.

With this teaching model, it is students themselves who build their professional competence through strategies such as Learning by Doing or Design Thinking, used by other renowned institutions such as Yale or Stanford.

This action-oriented method will be applied throughout the entire academic itinerary that the student undertakes with TECH. Students will be confronted with multiple real-life situations and will have to integrate knowledge, research, discuss and defend their ideas and decisions. All this with the premise of answering the question of how they would act when facing specific events of complexity in their daily work.



## Relearning Methodology

At TECH, case studies are enhanced with the best 100% online teaching method: Relearning.

This method breaks with traditional teaching techniques to put the student at the center of the equation, providing the best content in different formats. In this way, it manages to review and reiterate the key concepts of each subject and learn to apply them in a real context.

In the same line, and according to multiple scientific researches, reiteration is the best way to learn. For this reason, TECH offers between 8 and 16 repetitions of each key concept within the same lesson, presented in a different way, with the objective of ensuring that the knowledge is completely consolidated during the study process.

*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.*



## A 100% online Virtual Campus with the best teaching resources

In order to apply its methodology effectively, TECH focuses on providing graduates with teaching materials in different formats: texts, interactive videos, illustrations and knowledge maps, among others. All of them are designed by qualified teachers who focus their work on combining real cases with the resolution of complex situations through simulation, the study of contexts applied to each professional career and learning based on repetition, through audios, presentations, animations, images, etc.

The latest scientific evidence in the field of Neuroscience points to the importance of taking into account the place and context where the content is accessed before starting a new learning process. Being able to adjust these variables in a personalized way helps people to remember and store knowledge in the hippocampus to retain it in the long term. This is a model called Neurocognitive context-dependent e-learning that is consciously applied in this university qualification.

In order to facilitate tutor-student contact as much as possible, you will have a wide range of communication possibilities, both in real time and delayed (internal messaging, telephone answering service, email contact with the technical secretary, chat and videoconferences).

Likewise, this very complete Virtual Campus will allow TECH students to organize their study schedules according to their personal availability or work obligations. In this way, they will have global control of the academic content and teaching tools, based on their fast-paced professional update.



*The online study mode of this program will allow you to organize your time and learning pace, adapting it to your schedule”*

### 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 assess 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.

## The university methodology top-rated by its students

The results of this innovative teaching model can be seen in the overall satisfaction levels of TECH graduates.

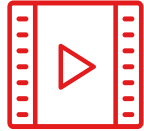
The students' assessment of the quality of teaching, quality of materials, course structure and objectives is excellent. Not surprisingly, the institution became the best rated university by its students on the Trustpilot review platform, obtaining a 4.9 out of 5.

*Access the study contents from any device with an Internet connection (computer, tablet, smartphone) thanks to the fact that TECH is at the forefront of technology and teaching.*

*You will be able to learn with the advantages that come with having access to simulated learning environments and the learning by observation approach, that is, Learning from an expert.*



As such, the best educational materials, thoroughly prepared, will be available in this program:



### 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.

This content is then adapted in an audiovisual format that will create our way of working online, with the latest techniques that allow us to offer you high quality in all of the material that we provide you with.



### Practicing Skills and Abilities

You will carry out activities to develop specific competencies and skills in each thematic field. Exercises and activities to acquire and develop the skills and abilities that a specialist needs to develop within the framework of the globalization we live in.



### Interactive Summaries

We present the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

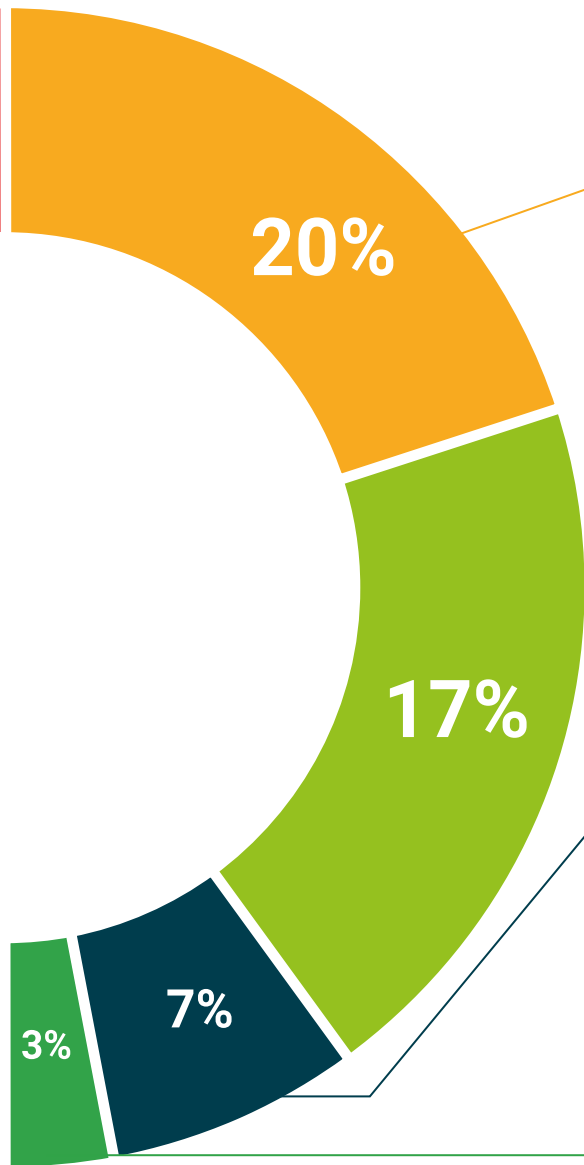
This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



### Additional Reading

Recent articles, consensus documents, international guides... In our virtual library you will have access to everything you need to complete your education.





**Case Studies**

Students will complete a selection of the best case studies in the field. Cases that are presented, analyzed, and supervised by the best specialists in the world.



**Testing & Retesting**

We periodically assess and re-assess your knowledge throughout the program. We do this on 3 of the 4 levels of Miller's Pyramid.



**Classes**

There is scientific evidence suggesting that observing third-party experts can be useful.  
Learning from an expert strengthens knowledge and memory, and generates confidence for 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 Diploma in Pediatric Artificial Nutrition and Hospital Dietetics guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Diploma issued by TECH Global University.





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

This private qualification will allow you to obtain a **Postgraduate Diploma in Pediatric Artificial Nutrition and Hospital Dietetics** endorsed by **TECH Global University**, the world's largest online university.

**TECH Global University**, is an official European University publicly recognized by the Government of Andorra ([official bulletin](#)). Andorra is part of the European Higher Education Area (EHEA) since 2003. The EHEA is an initiative promoted by the European Union that aims to organize the international training framework and harmonize the higher education systems of the member countries of this space. The project promotes common values, the implementation of collaborative tools and strengthening its quality assurance mechanisms to enhance collaboration and mobility among students, researchers and academics.

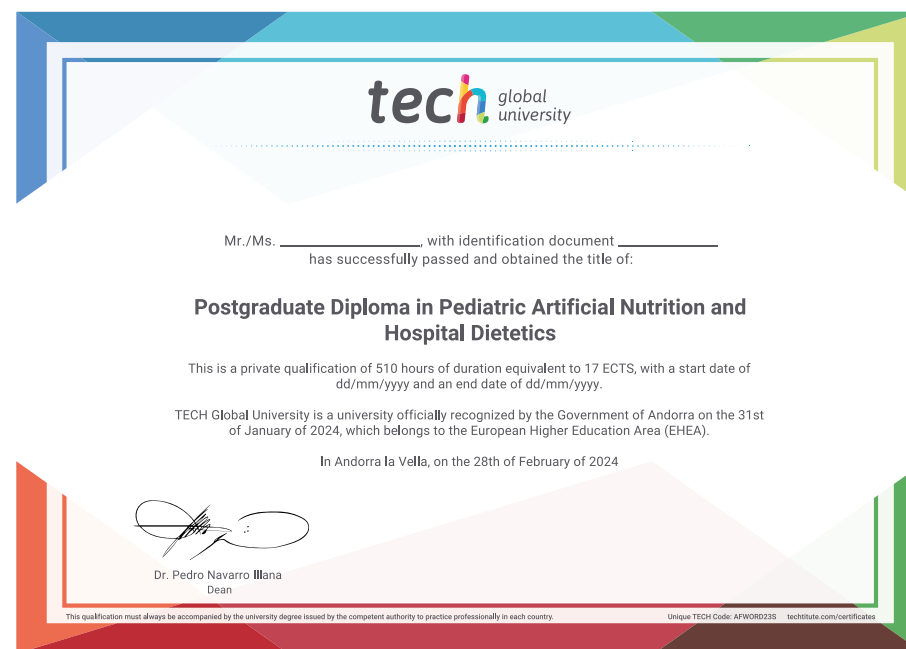
This **TECH Global University** private qualification, is a European program of continuing education and professional updating that guarantees the acquisition of competencies in its area of knowledge, providing a high curricular value to the student who completes the program.

Title: **Postgraduate Diploma in Pediatric Artificial Nutrition and Hospital Dietetics**

Modality: **online**

Duration: **6 months**

Accreditation: **17 ECTS**



\*Apostille Convention. In the event that the student wishes to have their paper diploma issued with an apostille, TECH Global University 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  
development language  
virtual classroom



**Postgraduate Diploma**  
Pediatric Artificial Nutrition  
and Hospital Dietetics

- › Modality: online
- › Duration: 6 months
- › Certificate: TECH Global University
- › Accreditation: 17 ECTS
- › Schedule: at your own pace
- › Exams: online

# Postgraduate Diploma

## Pediatric Artificial Nutrition and Hospital Dietetics

