

# Hybrid Professional Master's Degree

Clinical Nutrition  
in Pediatrics



## Hybrid Professional Master's Degree

### Clinical Nutrition in Pediatrics

Modality: Hybrid (Online + Clinical Internship)

Duration: 12 months

Certificate: TECH Technological University

Teaching Hours: 1,620 h.

Website: [www.techtute.com/in/nutrition/hybrid-professional-master-degree/hybrid-professional-master-degree-clinical-nutrition-pediatrics](http://www.techtute.com/in/nutrition/hybrid-professional-master-degree/hybrid-professional-master-degree-clinical-nutrition-pediatrics)

# Index

01

Introduction

---

*p. 4*

02

Why Study this Hybrid  
Professional Master's Degree?

---

*p. 8*

03

Objectives

---

*p. 12*

04

Skills

---

*p. 18*

05

Course Management

---

*p. 22*

06

Educational Plan

---

*p. 26*

07

Clinical Internship

---

*p. 32*

08

Where Can I Do the Clinical  
Internship?

---

*p. 38*

09

Methodology

---

*p. 42*

10

Certificate

---

*p. 50*

# 01

# Introduction

Nutrition in each of the different stages of the pediatric age must be taken care of, since adequate growth and development depend on it in order to avoid nutritional deficiencies and prevent diseases that manifest in adults. Nutritional support in pediatric patients plays a fundamental role in contributing to better clinical outcomes by reducing hospital stay, infectious complications, morbidity, and mortality. Update in Clinical Nutrition is an essential response from professionals to the healthcare and preventive needs of the population in terms of nutrition and health. In response to this need, this Hybrid Professional Master's Degree has been developed, which concentrates the most up-to-date studies on the subject, combining the online methodology with an Internship Program in a renowned hospital center.







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*Enroll now to be at the forefront of studies in Clinical Nutrition in Pediatrics. Updates diagnostics and treatments for better daily practice in medical practice"*

There is a growing interest in the study of food and nutrition in the genesis, treatment and support of a large number of pathologies in children as future healthy adults. Nowadays, epidemiological, experimental, and clinical data show that the most prevalent diseases in developed societies whose symptomatology is expressed in the adult period have their origin in the pediatric age. In addition, it is important to know the energy, macro, and micronutrients requirements during each pediatric stage, especially during hospitalization or medical treatment.

Therefore, integrating adequate nutritional assessment is becoming increasingly important at hospital admission and on a regular basis, which helps to detect the presence or deterioration of nutritional status in a timely manner, as well as a correct estimation and supply of energy requirements that help to avoid overfeeding or underfeeding. The health professionals must have the necessary qualifications to meet these requirements and in this updating program they will be able to achieve these objectives.

With the most up-to-date and detailed content on the subject of Clinical Nutrition in Pediatrics, selected by active professional experts, which ensures quality coverage to the student. Therefore, the theoretical-practical modality stands out, where the theoretical studies are 100% online, with the availability of different formats, both audiovisual and written. The Internship Program, which is carried out as a fundamental part in approving the studies in the on-site exercise will make the learning process much more dynamic.

In this case, TECH selects the best clinical centers of reference in the country and even internationally, where students can apply what they have learned and verify with real cases the studies performed. With the support of an expert tutor and a multidisciplinary team.

In this Hybrid Professional Master's Degree in Clinical Nutrition in Pediatrics, we will delve into all the topics of competence, from new advances, current trends, analysis of the different types of diets in the management of the pediatric unit, the physiology of Child Nutrition, the various digestive and non-digestive pathologies, among other important issues within a proper medical assessment of a pediatric case. Exercising finally, everything learned in a practical way for 3 weeks in 8-hour days from Monday to Friday, in one of the best clinical centers selected by TECH, to provide the professional with a cutting edge update.

This **Hybrid Professional Master's Degree in Clinical Nutrition in Pediatrics** contains the most complete and up-to-date scientific program on the market. The most important features include:

- ♦ Development of more than 100 practice cases presented by experts in the Sciences Field of Health
- ♦ The graphic, schematic, and practical contents with which they are created, provide scientific and practical information on the medical disciplines that are essential for professional practice
- ♦ Comprehensive systematized action plans for the health sector problems
- ♦ Presentation of practical workshops on Clinical Nutrition
- ♦ An algorithm-based interactive learning system for decision-making in the situations presented
- ♦ Practical clinical guides on approaching different pathologies
- ♦ Special emphasis on trends in nutrition and new pathologies
- ♦ All of this will be complemented by 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
- ♦ In addition, you will be able to carry out a clinical internship in one of the best hospital centers in the world

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*The doctors will perfectly adjust their updating process to their daily schedule, as it is a 100% online study with a practical stay of 3 weeks"*

In this proposed Master's Degree, of a professionalizing nature and hybrid learning modality, the program is aimed at updating physicians who wish to broaden their knowledge in the area of pediatrics and/or specifically in the subject of Clinical Nutrition in Pediatrics and for this purpose require a high level of qualification.. The contents are based on the latest evidence on the subject, and oriented in an educational way to integrate theoretical knowledge into practice, and the theoretical-practical elements will facilitate knowledge update and decision-making in uncertain environments.

Thanks to multimedia content developed with the latest educational technology, they will allow the Healthcare professionals a situated and contextual learning, i.e., a simulated environment that will provide immersive learning programmed to prepare professionals for real situations. This program is designed around Problem-Based Learning, whereby the physician must try to solve the different professional practice situations that arise during the course. This will be done with the help of an innovative system of interactive videos made by renowned experts.

*Take the knowledge and experience of outstanding professionals in the area and develop your career in a more up-to-date way.*

*This Hybrid Professional Master's Degree will allow the health professional to apply more complete, safe, and effective treatments, but, above all, based on the latest developments in Clinical Nutrition in Pediatrics.*



02

# Why Study this Hybrid Professional Master's Degree?

The importance of making an early diagnosis during childhood in those children who may suffer from some type of pathology that can be treated through nutrition, as well as establishing correct nutritional guidelines for the optimal development of the patient's health, highlights the need for professionals in this area to be constantly updating their knowledge. For this reason, TECH, together with its team versed in Pediatric Nutrition, has developed a complete program thanks to which you will be able to get up-to-date in a complete and exhaustive way in everything related to this specialty in only 12 months of theoretical-practical educational experience.





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*A program that offers you everything you need to get up-to-date on everything related to Pediatric Clinical Nutrition, combining theory and practice in 12 months of multidisciplinary experience"*

### **1. Updating from the Latest Technology Available**

If the graduates decide enroll in this Hybrid Professional Master's Degree, they will have access to the most sophisticated clinical technology, as well as to the most cutting-edge equipment in the field of Nutrition in Pediatrics. In this way, they will be able to implement in their practice the management of the same, improving their competences in a guaranteed way.

### **2. Gaining In-depth Knowledge from the Experience of Top Specialists**

The professional staff included in this program will accompany the graduate throughout their stay, offering their own experience to guide them through the program. In addition, this will help you to get the most out of all the resources you will find in the theoretical section.

### **3. Entering First-Class Clinical Environments**

During the 3 weeks in which this clinical experience takes place, the graduates will have access to hundreds of diverse cases, in which they will have to apply the knowledge previously acquired during the theoretical period. In addition, you will be able to delve into them with the security and guarantee of having the best strategies, as well as the support of a team that will ensure the safety of the professional and the patient.





#### **4. Combining the Best Theory with State-of-the-Art Practice**

The complete aspect of this program is based on the perfect combination that TECH makes with the design of its educational plan, combining in 1,620 hours, the best theoretical, practical, and additional content, with the possibility of a 3-week stay in a reference clinical center.

#### **5. Expanding the Boundaries of Knowledge**

TECH's agreement goes beyond national borders. Therefore, the graduate will be able to take the program's practical internship in different parts of the world. Based on this, it is presented as a unique opportunity to live an unparalleled experience that will allow you update your practice at the same time as your culture, soaking up the trends that are setting the current medical trends in different parts of the international scene.

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*You will have full practical immersion at the center of your choice”*

# 03 Objectives

The objectives of this Hybrid Professional Master's Degree are update the professional's knowledge and facilitate the specialist's performance in dealing with patients with nutritional counseling needs. After the program, and the development of the internship in a prestigious center, the student will be able to make global decisions with an innovative perspective and a deep vision of the importance of good nutrition in the treatment and prevention of diseases of the individual since birth.







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*For every healthcare professional, it is essential provide quality care to their patients. With this program you will achieve the knowledge and skills that will enhance safety and well-being in your performance”*



## General Objective

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- The general objective of this program is update the pediatrician's knowledge on the new trends in Child Nutrition, both in health and in pathological situations through evidence-based medicine, promoting work strategies based on the practical knowledge of the new trends in nutrition and its application to children's pathologies, where nutrition plays a key role in their therapy. Furthermore, 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 specialization, and encourage professional stimulation through continuous learning and research

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*A exclusive TECH program  
that will help you achieve your  
professional goals”*





## 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. Current Trends in Nutrition

- ♦ Review the new dietary guidelines, nutritional objectives, and recommended dietary allowances (RDA)
- ♦ Explain the proper reading of new food labeling
- ♦ Incorporate phytotherapy as a coadjuvant treatment in clinical practice
- ♦ Identify and classify foods, food products, and food ingredients
- ♦ Review current trends in premature infant nutrition
- ♦ Explain the latest evidence on food allergies and intolerances

### **Module 3. 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 nutritional assessment of the patient and in their dietary-nutritional treatment
- ♦ Manage the different types of nutritional surveys to assess food intake
- ♦ Assess and maintain adequate hygiene and food safety practices, applying current legislation
- ♦ Evaluate and prescribe physical activity as a factor involved in nutritional status

### **Module 4. Physiology of Infant Nutrition**

- ♦ Update the drug-nutrient interaction and its implication in the patient's treatment
- ♦ Identify the relationship between nutrition and immune status
- ♦ Define the fundamental of nutrigenetics and nutrigenomics
- ♦ Review the psychological bases and biopsychosocial factors that affect human eating behavior
- ♦ Explain the relationship of physiology and Nutrition in the different stages of infant development
- ♦ Describe the main malabsorption syndromes and how they are treated

### **Module 5. Artificial Nutrition in Pediatrics**

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

### **Module 6. Infant Malnutrition**

- ♦ Predict patients' nutritional risk
- ♦ Early detection and assessment 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



### Module 7. Childhood Nutrition and Pathologies

- ♦ Analyze the implications of nutrition in the growth process and in the prevention and treatment of different childhood pathologies
- ♦ Explain current trends in the nutrition of infants with delayed intrauterine growth and the implication of nutrition on metabolic diseases
- ♦ Reflect on the etiology, repercussions, and treatment of childhood obesity
- ♦ Explain the nutritional treatment of the most common deficiency diseases in our environment
- ♦ Define the role that fats play in children's diets
- ♦ Assess the psychological and physiological aspects involved in eating disorders in young children
- ♦ Review the pathogenesis and update the treatment of inborn errors of metabolism
- ♦ Identify exclusion foods in the diets of children with celiac disease
- ♦ Identify dietary factors related to bone metabolism
- ♦ Explain managing children with gastroesophageal reflux
- ♦ Describe the main malabsorption syndromes and how they are treated

### Module 8. Childhood Nutrition and Pathologies

- ♦ 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

# 04 Skills

At the end of this Hybrid Professional Master's Degree in Clinical Nutrition in Pediatrics, the professional will be able to apply a quality and up-to-date praxis based on the latest scientific evidence in Medicine. Once the theoretical and practical evaluations have been passed, they will be able to perform autonomously in different situations related to the subject studied, finding the appropriate solutions for the treatment of any condition in a pediatric patient, from the most common to the most complicated, and even apply Preventive Medicine.



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*With this program, your vision will be broadened by incorporating advances in the management of patient feeding from an early age”*





## General Skills

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- Possess and understand knowledge that provides a basis or opportunity to be original in the development and/or application of ideas, often in a research context
- Apply acquired knowledge and problem-solving skills in new or unfamiliar environments within broader (or multidisciplinary) contexts related to the field of study
- Integrate knowledge and face the complexity of making judgments based on incomplete or limited information, including reflections on the social and ethical responsibilities linked to the application of their knowledge and judgments
- Communicate conclusions and the ultimate knowledge and rationale behind them in a clear and unambiguous way to reach both specialized and non-specialized audiences
- Acquire the learning skills that will enable further studying in a largely self-directed or autonomous manner in order to continue updating knowledge over time







## Specific Skills

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- Describe balanced nutrition at different stages of the life cycle, as well as exercise to prevent deficits and deficiencies
- Contrast nutritional requirements in health and disease situations at any stage of the life cycle to adapt to the patient accordingly
- Determine nutritional objectives and recommended nutrient intakes (RDA) to establish healthy recommendations for our patients
- Develop skills in reading and understanding food labeling to identify the most appropriate foods to advise our patients
- Design an adjuvant treatment based on phytotherapy as an additional resource in the nutritional support of patients
- Question the different methods of assessment of nutritional status in order to select the most appropriate one for the subject under study
- Interpret all data in the nutritional assessment of the patient in order to make a proper nutritional diagnosis
- Define food hygiene practices based on current legislation in order to prevent food-related complications
- Analyze the importance of nutrition in the growth process in childhood in order to detect problems or pathologies related to deficiencies or deficits
- Questioning nutritional requirements at different stages of childhood in order to adapt them to the needs of children
- Determine the calculation of the nutritional needs and risks of children and adolescent athletes in order to guarantee adequate growth and development
- Describe current trends in new-born nutrition in order to advise parents
- Describe the operation of milk banks in order to advise parents of children with specific needs
- Screen children at nutritional risk in order to apply targeted support to those at risk
- Design an evaluation and monitoring plan for children on nutritional support to determine their adequacy
- Analyze the differences between probiotic and prebiotic foods in order to determine their application in the infant stage
- Develop a correct nutritional support for the malnourished child in order to reverse this situation and avoid later complications
- Describe the etiology, repercussions and treatment of childhood obesity in order to detect, prevent and treat when necessary
- Address the psychological and physiological aspects involved in feeding disorders in young children in order to prevent and identify complications in their development and growth

05

# Course Management

This program is under the direction of a multidisciplinary team of active specialists in the health area. With an extensive background and reputable knowledge in their area of expertise. The combination of its practical skills with the latest scientific theory makes the program of outstanding quality. A team of experts who will develop the theoretical knowledge in an efficient way, but above all, they will put at your service the practical knowledge derived from their own experience.



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*A team of expert doctors directs the program and provides you with the necessary support to achieve the professional goal you desire”*

## Management



### Dr. Aunió Lavarías, María Eugenia

- ◆ Pharmacist Clinical Nutrition Expert
- ◆ Author of the reference book in the field of Clinical Nutrition, Dietary Management of Overweight in the Pharmacy Office(Editorial Médica Panamericana)
- ◆ Pharmacist with extensive experience in the public and private sector
- ◆ Head Pharmacist
- ◆ Assistant Pharmacist. Pharmacy Chain. British Health and Beauty Retailers Boots UK Oxford Street Central London
- ◆ Bachelor 's Degree in Food Science and Technology. University of Valencia
- ◆ Direction of the Dermocosmetic University Course. Pharmacy Office





# 06 Educational Plan

The syllabus has been designed under an exhaustive analysis of the expert professionals who direct this program. Based on the current need of the health sector to provide fast and effective solutions to the patient. In this way, a syllabus of 8 modules divided into well-detailed topics and subtopics has been established, offering a broad perspective of Clinical Nutrition in Pediatrics. Combining theoretical and practical education, implementing a cutting-edge methodology 100% online and an internship program in renowned clinical centers of prestige, respectively.







TIME

TIME

VOL/D

INITIALS

### 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 labelling and consumer information
- 1.11. Phytotherapy Applied to Nutritional Pathologies

### Module 2. Current Trends in Nutrition

- 2.1. Nutrigenetics
- 2.2. Nutrigenomics
  - 2.2.1. Fundamentals
  - 2.2.2. Methods
- 2.3. Immunonutrition
  - 2.3.1. Nutrition-Immunity Interactions
  - 2.3.2. Antioxidants and Immune Function
- 2.4. Physiological Regulation of Feeding, Appetite and Satiety
- 2.5. Psychology and Nutrition
- 2.6. Nutrition and the Circadian System. Timing is the Key
- 2.7. Update on Nutritional Objectives and Recommended Intakes
- 2.8. New Evidence on the Mediterranean Diet





### Module 3. Clinical Nutrition and Hospital Dietetics

- 3.1. Management of Hospital Nutrition Units
  - 3.1.1. Nutrition in the Hospital Setting
  - 3.1.2. Food Safety in Hospitals
  - 3.1.3. Planning and Managing Hospital Diets Dietary Code
- 3.2. Hospital Basal Diets
  - 3.2.1. Pediatric Basal Diet
  - 3.2.2. Ovo-Lacto-Vegetarian and Vegan Diet
  - 3.2.3. Diet Adapted to Cultural
- 3.3. Therapeutic Hospital Diets
  - 3.3.1. Uniting Diets
  - 3.3.2. Personalized Menus
- 3.4. Bidirectional Drug-Nutrient Interaction

### Module 4. Physiology of Infant Nutrition

- 4.1. Influence of Nutrition on Growth and Development
- 4.2. Nutritional Requirements in the Different Periods of Childhood
- 4.3. Nutritional Assessment in Children
- 4.4. Physical Activity Evaluation and Recommendations
- 4.5. Nutrition During Pregnancy and its Impact on the New-born
- 4.6. Current Trends in the Premature New-born Nutrition
- 4.7. Nutrition in Lactating Women and its Impact on the Infant
- 4.8. Nutrition of New-borns with Intrauterine Growth Delay
- 4.9. Breastfeeding
  - 4.9.1. Human Milk as a Functional Food
  - 4.9.2. Process of Milk Synthesis and Secretion
  - 4.9.3. Reasons for it to be Encouraged
- 4.10. Human Milk Banks
  - 4.10.1. Milk Bank Operation and Indications
- 4.11. Concept and Characteristics of the Formulas Used in Infant Feeding
- 4.12. The Move to a Diversified Diet. Complementary Feeding During the First Year of Life
- 4.13. Feeding 1–3-Year-Old Children

- 4.14. Feeding During the Stable Growth Phase. Schoolchild Nutrition
- 4.15. Adolescent Nutrition. Nutritional Risk Factors
- 4.16. Child and Adolescent Athlete Nutrition
- 4.17. Other Dietary Patterns for Children and Adolescents. Cultural, Social, and Religious Influences on Childhood Nutrition
- 4.18. Prevention of Childhood Nutritional Diseases Objectives and Guidelines

### Module 5. Artificial Nutrition in Pediatrics

- 5.1. Concept of Nutritional Therapy in Pediatrics
  - 5.1.1. Evaluation of Patients in Need of Nutritional Support
  - 5.1.2. Indications
- 5.2. General Information about Enteral and Parenteral Nutrition
  - 5.2.1. Enteral Paediatric Nutrition
  - 5.2.2. Parenteral Paediatric Nutrition
- 5.3. Dietary Products Used for Sick Children or Children with Special Needs
- 5.4. Implementing and Monitoring Patients with Nutritional Support
  - 5.4.1. Critical Patients
  - 5.4.2. Patients with Neurological Pathologies
- 5.5. Artificial Nutrition at Home
- 5.6. Nutritional Supplements to Support the Conventional Diet
- 5.7. Probiotics and Prebiotics in Infant Feeding

### Module 6. Infant Malnutrition

- 6.1. Childhood Malnutrition and Undernutrition
  - 6.1.1. Psychosocial Aspects
  - 6.1.2. Pediatric Assessment
  - 6.1.3. Treatment and Monitoring
- 6.2. Nutritional Anemias
  - 6.2.1. Other Nutritional Anemias in Childhood
- 6.3. Vitamin and Trace Element Deficiencies
  - 6.3.1. Vitamins
  - 6.3.2. Trace Elements
  - 6.3.3. Detection and Treatment

- 6.4. Fats in Infant Diets
  - 6.4.1. Essential Fatty Acids
- 6.5. Childhood Obesity
  - 6.5.1. Prevention
  - 6.5.2. Impact of Childhood Obesity
  - 6.5.3. Nutritional Treatment

## Module 7. Childhood Nutrition and Pathologies

- 7.1. Nutrition of Children with Oral Pathologies
  - 7.1.1. Major Childhood oral pathologies
  - 7.1.2. Repercussions of These Alterations on the Child's Nutrition
  - 7.1.3. Mechanisms to Avoid Related Malnutrition
- 7.2. Nutrition of Infants and Children with Gastroesophageal Reflux
  - 7.2.1. Repercussions of These Alterations on the Child's Nutrition
  - 7.2.2. Mechanisms to Avoid Related Malnutrition
- 7.3. Nutrition in Acute Diarrhea Situation
  - 7.3.1. Repercussions of These Alterations on the Child's Nutrition
  - 7.3.2. Mechanisms to Avoid Related Malnutrition
- 7.4. Nutrition in Children with Celiac Disease
  - 7.4.1. Repercussions of These Alterations on the Child's Nutrition
  - 7.4.2. Mechanisms to Avoid Related Malnutrition
- 7.5. Nutrition in Children with Inflammatory Bowel Disease
  - 7.5.1. Repercussions of These Alterations on the Child's Nutrition
  - 7.5.2. Mechanisms to Avoid Related Malnutrition
- 7.6. Nutrition in Children with Digestive Malabsorption Syndrome
  - 7.6.1. Repercussions of These Alterations on the Child's Nutrition
  - 7.6.2. Mechanisms to Avoid Related Malnutrition
- 7.7. Nutrition in Children with Constipation
  - 7.7.1. Nutritional Mechanisms to Prevent Constipation
  - 7.7.2. Nutritional Approaches for Treating Constipation
- 7.8. Nutrition in Children with Liver Disease
  - 7.8.1. Repercussions of These Alterations on the Child's Nutrition
  - 7.8.2. Mechanisms to Avoid Related Malnutrition
  - 7.8.3. Special Diets





## Module 8. Childhood Nutrition and Pathologies

- 8.1. Feeding Difficulties and Disorders in Children Small
  - 8.1.1. Physiological Aspects
  - 8.1.2. Psychological Aspects
- 8.2. Eating Disorders
  - 8.2.1. Anorexia
  - 8.2.2. Bulimia
  - 8.2.3. Others
- 8.3. Inborn Errors of Metabolism
  - 8.3.1. Principles for Dietary Treatment
- 8.4. Nutrition in Dyslipidemias
  - 8.4.1. Nutritional Mechanisms to Prevent Dyslipidemias
  - 8.4.2. Nutritional Approaches for Treating Dyslipidemias
- 8.5. Nutrition in Diabetic Children
  - 8.5.1. Repercussions of Diabetes on the Child's Nutrition
  - 8.5.2. Mechanisms to Avoid Related Malnutrition
- 8.6. Nutrition in Autistic Children
  - 8.6.1. Repercussions of These Alterations on the Child's Nutrition
  - 8.6.2. Mechanisms to Avoid Related Malnutrition
- 8.7. Nutrition in Children with Cancer
  - 8.7.1. Repercussions of Disease and Treatments in the Child's Nutrition
  - 8.7.2. Mechanisms to Avoid Related Malnutrition
- 8.8. Nutrition in Children with Chronic Pulmonary Pathology
  - 8.8.1. Repercussions of These Alterations on the Child's Nutrition
  - 8.8.2. Mechanisms to Avoid Related Malnutrition
- 8.9. Nutrition in Children with Nephropathy
  - 8.9.1. Repercussions of These Alterations on the Child's Nutrition
  - 8.9.2. Mechanisms to Avoid Related Malnutrition
  - 8.9.3. Special Diets
- 8.10. Nutrition in Children with Food Allergies and/or Intolerances
  - 8.10.1. Special Diets
- 8.11. Childhood and Bone Pathology Nutrition
  - 8.11.1. Mechanisms for Good Bone Health in Childhood



07

# Clinical Internship

After completing the online updating period, the program includes an internship program in a reference center in the health area with the necessary clinical equipment with a stay of 3 weeks in a day of 8 consecutive hours, guaranteeing the specialization sought by the professional and broadening their vision of the world of Clinical Nutrition in Pediatrics. Highlighting the tutoring that you will receive throughout the course for the correct approval of it.







“

*TECH gives you access not only to the best online update, but also to an internship in a prestigious center where you will be able to interact with renowned medical professionals"*

After having passed the theoretical part 100% online, it is up to the student to take on the challenge of the internship of this Clinical Nutrition in Pediatrics program. For this purpose, TECH has prestigious national and international centers that open their doors for future graduates to learn on-site. Providing them with the necessary technical and human resources.

It should be noted that this internship includes 3 weeks of on-site work at the center chosen for this purpose. With 8-hour days from Monday to Friday, of continuous learning and practical execution, alongside an assistant specialist. This internship offers the opportunity to deal with real situations in pediatric patients alongside a team of reference professionals, destined to provide the necessary support to the student.

In this training proposal, completely practical in nature, the activities are aimed at developing and perfecting the skills necessary for the provision of primary care in areas and conditions that require a high level of qualification, and are oriented towards specific training for the exercise of the activity, in a safe environment and high professional performance.

The practical part will be carried out with the active participation of the student performing the activities and procedures of each area of competence (learning to learn and learning to do), with the accompaniment and guidance of teachers and other fellow trainees that facilitate teamwork and multidisciplinary integration as transversal competencies for clinical in medicine practice (learning to be and learning to relate).

The procedures described below will form the basis of the practical part of the internship, and their implementation is subject to both the suitability of the patients and the availability of the center and its workload, with the proposed activities being as follows:



*This Hybrid Professional Master's Degree in Clinical Nutrition in Pediatrics is the best option for physicians who wish to continue advancing in their professional development. If you are one of them, enroll now"*



| Module   | Practical Activity   |
|--|--|
| <b>Advances and trends in food</b>                               | Conduct analysis of new food developments  |
|  | Develop analyses in Nutrigenetics and Nutrigenomics  |
|  | Delve into the Assessment of immunonutrition   |
|  | Apply the physiological regulation of eating for appetite and satiety                                  |
|  | Manage the evaluation in Nutrition and circadian system  |
| <b>Nutrition in pathologies of childhood</b>                     | Conduct an analysis in the Nutrition of the child with oral pathology                                  |
|  | Delve into the assessment of infants and children nutrition with gastroesophageal reflux               |
|  | Develop an analysis in the Nutrition in acute diarrhea situation                                       |
|  | Manage the evaluation in the Nutrition of the child with celiac disease                                |
|  | Conduct an evaluation of the oncological child   |
|  | Develop an analysis of the Nutrition in children with chronic pulmonary pathology                      |
| <b>Update in physiology of Infant Nutrition</b>                  | Delve into the assessment of children with nephropathy   |
|  | Update on the assessment of the influence of nutrition on growth and development                       |
|  | Know in detail the most innovative evaluation guidelines from a nutritional point of view in the child |
|  | Delve into the physical activity evaluation and recommendations  |
|  | Conduct an evaluation on Nutrition during pregnancy and its impact on the newborn                      |
|  | Develop an analysis in Nutrition in lactating women and its impact on the infant                       |
| <b>Artificial Nutrition in Pediatrics and child malnutrition</b> | Understand the assessment of feeding of newborns with intrauterine growth delay                        |
|  | Conduct an evaluation of dietary products used for sick children or children with special needs        |
|  | Implement and work in the monitoring patients with nutritional support                                 |
|  | Perform an analysis in Home Artificial Nutrition   |
|  | Delve into the assessment of nutritional supplements to support the conventional diet                  |
|  | Delve into the evaluation of probiotics and prebiotics in infant feeding                               |
|  | Incur in the assessment of child malnutrition and undernutrition                                       |
|  | Perform an evaluation of nutritional anemias   |
|  | Develop an analysis of vitamin and trace element deficiencies  |
| Delve into the assessment of fats in infant feeding              |  |

## Civil Liability Insurance

This institution's main concern is to guarantee the safety of the trainees and other collaborating agents involved in the internship process at the company. Among the measures dedicated to achieve this is the response to any incident that may occur during the entire teaching-learning process.

To this end, this entity commits to purchasing a civil liability insurance policy to cover any eventuality that may arise during the course of the internship at the center.

This liability policy for interns will have broad coverage and will be taken out prior to the start of the practical training period. That way professionals will not have to worry in case of having to face an unexpected situation and will be covered until the end of the internship program at the center.





## General Conditions of the Internship Program

The general terms and conditions of the internship agreement for the program are as follows:

**1. TUTOR:** During the Hybrid Professional Master's Degree, students will be assigned with two tutors who will accompany them throughout the process, answering any doubts and questions that may arise. On the one hand, there will be a professional tutor belonging to the internship center who will have the purpose of guiding and supporting the student at all times. On the other hand, they will also be assigned with an academic tutor whose mission will be to coordinate and help the students during the whole process, solving doubts and facilitating everything they may need. In this way, the student will be accompanied and will be able to discuss any doubts that may arise, both clinical and academic.

**2. DURATION:** The internship program will have a duration of three continuous weeks, in 8-hour days, 5 days a week. The days of attendance and the schedule will be the responsibility of the center and the professional will be informed well in advance so that they can make the appropriate arrangements.

**3. ABSENCE:** If the students does not show up on the start date of the Hybrid Professional Master's Degree, they will lose the right to it, without the possibility of reimbursement or change of dates. Absence for more than two days from the internship, without justification or a medical reason, will result in the professional's withdrawal from the internship, therefore, automatic termination of the internship. Any problems that may arise during the course of the internship must be urgently reported to the academic tutor.

**4. CERTIFICATION:** Professionals who pass the Hybrid Professional Master's Degree will receive a certificate accrediting their stay at the center.

**5. EMPLOYMENT RELATIONSHIP:** the Hybrid Professional Master's Degree shall not constitute an employment relationship of any kind.

**6. PRIOR EDUCATION:** Some centers may require a certificate of prior education for the Hybrid Professional Master's Degree. In these cases, it will be necessary to submit it to the TECH internship department so that the assignment of the chosen center can be confirmed.

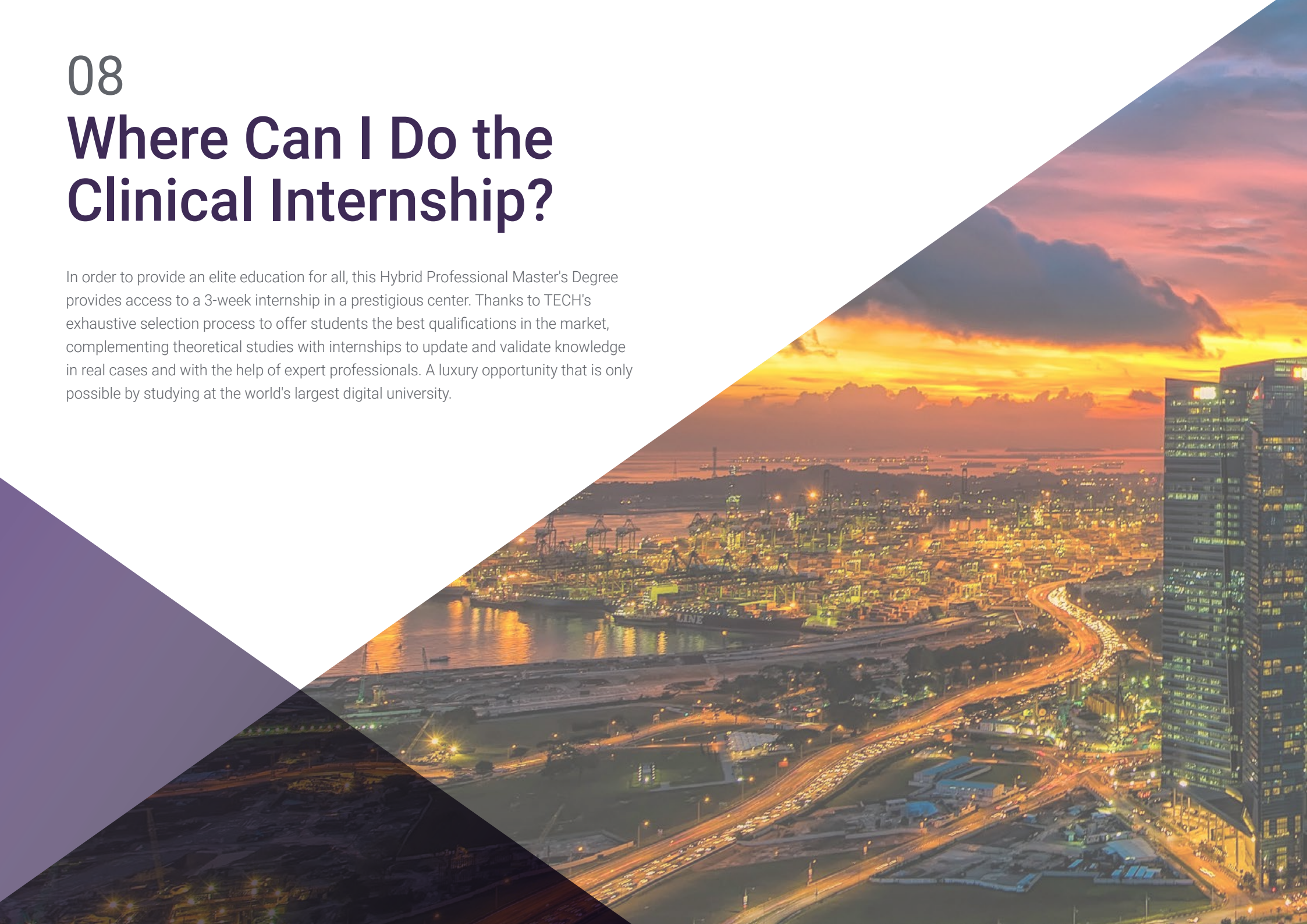
**7. DOES NOT INCLUDE:** The Hybrid Professional Master's Degree will not include any element not described in the present conditions. Therefore, it does not include accommodation, transportation to the city where the internship takes place, visas or any other items not listed.

However, students may consult with their academic tutor for any questions or recommendations in this regard. The academic tutor will provide the student with all the necessary information to facilitate the procedures in any case.

# 08

## Where Can I Do the Clinical Internship?

In order to provide an elite education for all, this Hybrid Professional Master's Degree provides access to a 3-week internship in a prestigious center. Thanks to TECH's exhaustive selection process to offer students the best qualifications in the market, complementing theoretical studies with internships to update and validate knowledge in real cases and with the help of expert professionals. A luxury opportunity that is only possible by studying at the world's largest digital university.







“

*Combine theoretical and practical methods to speed up students' learning. This program offers you the opportunity to apply what you have learned in the best clinical centers with a 3-week stay"*

## tech 40 | Where Can I Do the Clinical Internship?



The student will be able to complete the practical part of this Hybrid Professional Master's Degree at the following centers:



**Nutrition**

**Centro Médico Villanueva de la Cañada**

Country: Spain      City: Madrid

Address: C. Arquitecto Juan de Herrera, 2,  
28691 Villanueva de la Cañada, Madrid

Medical center with services in the main clinical specialties and diagnostic tests

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**Related internship programs:**

- Clinical Nutrition in Pediatrics
- Primary Care Clinical Ultrasound







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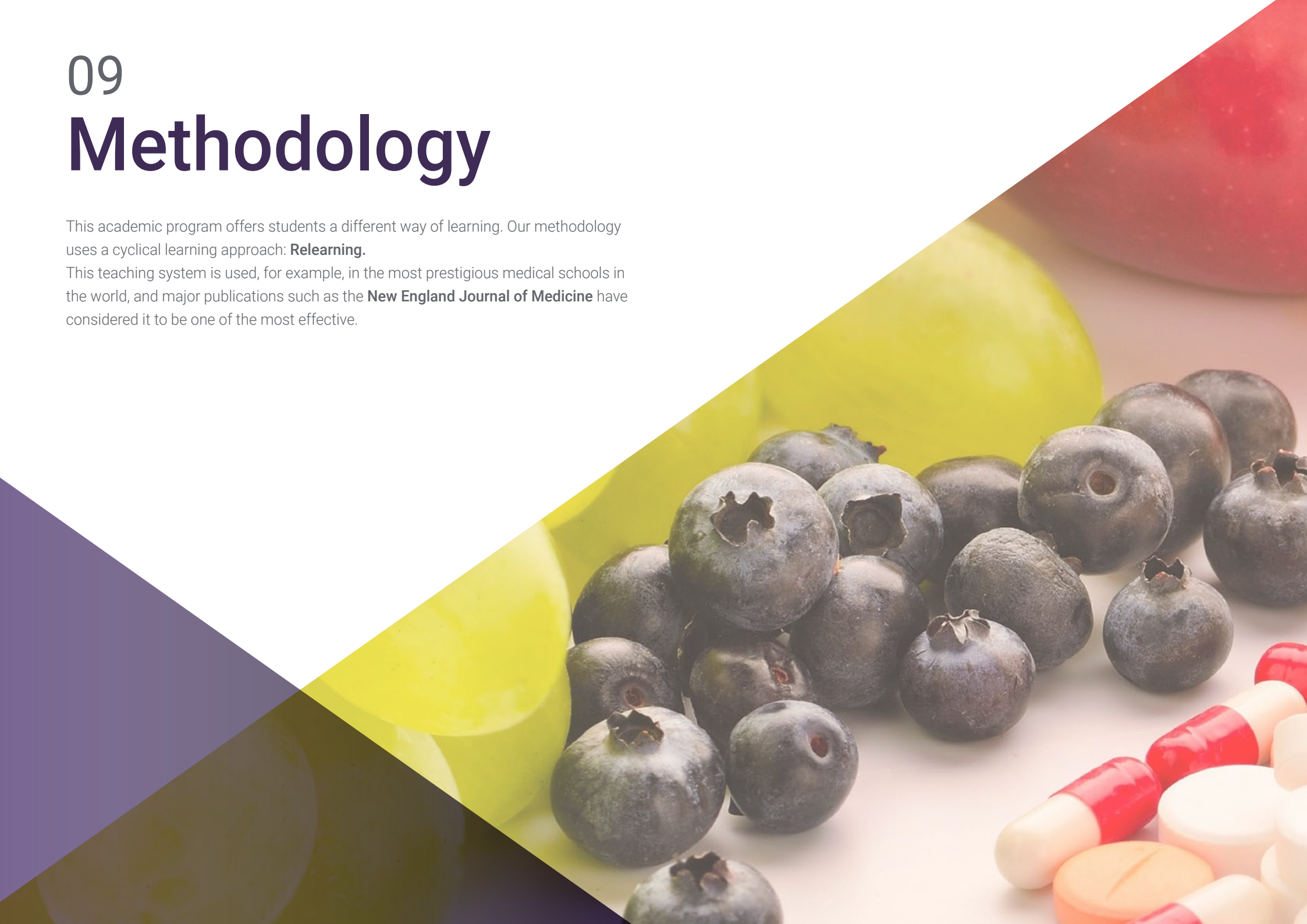
*Make the most of this opportunity to surround yourself with expert professionals and learn from their work methodology”*

09

# 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.







“

*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

In a given situation, what should a professional do? 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, nutritionists can 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 nutritional practice.



“

*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. Nutritionists who follow this method not only achieve the assimilation of concepts, but also a development of their mental capacity through exercises to evaluate real situations and the application of knowledge.
2. Learning is solidly translated into practical skills that allow the nutritionist to better integrate knowledge into clinical practice.
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 nutritionist 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, more than 45,000 nutritionists have been trained with unprecedented success in all clinical specialties regardless of the surgical load. All this in a highly demanding environment, where the students have a strong socio-economic profile and an average age of 43.5 years.

*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 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.



#### Nutrition Techniques and Procedures on Video

TECH brings students closer to the latest techniques, the latest educational advances and to the forefront of current nutritional counselling 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 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".

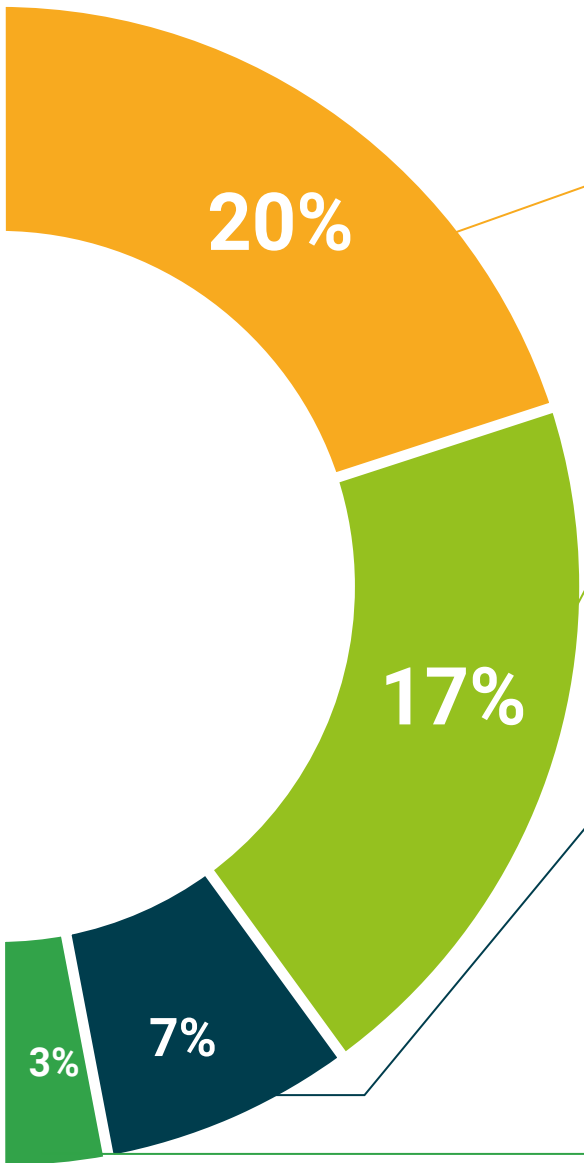


#### Additional Reading

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 suggesting that observing third-party experts can be useful.  
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.



# 10 Certificate

The Professional Hybrid Master's Degree in Clinical Nutrition in Pediatrics guarantees students, in addition to the most rigorous and up-to-date education, access to a Hybrid Professional Master's Degree 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 **Hybrid Professional Master's Degree in Clinical Nutrition in Pediatrics** contains the most complete and up-to-date program on the professional and educational field.

After the student has passed the assessments, they will receive their corresponding Hybrid Professional Master's Degree diploma issued by TECH Technological University via tracked delivery\*.

In addition to the certificate, students will be able to obtain an academic transcript, as well as a certificate outlining the contents of the program. In order to do so, students should contact their academic advisor, who will provide them with all the necessary information.

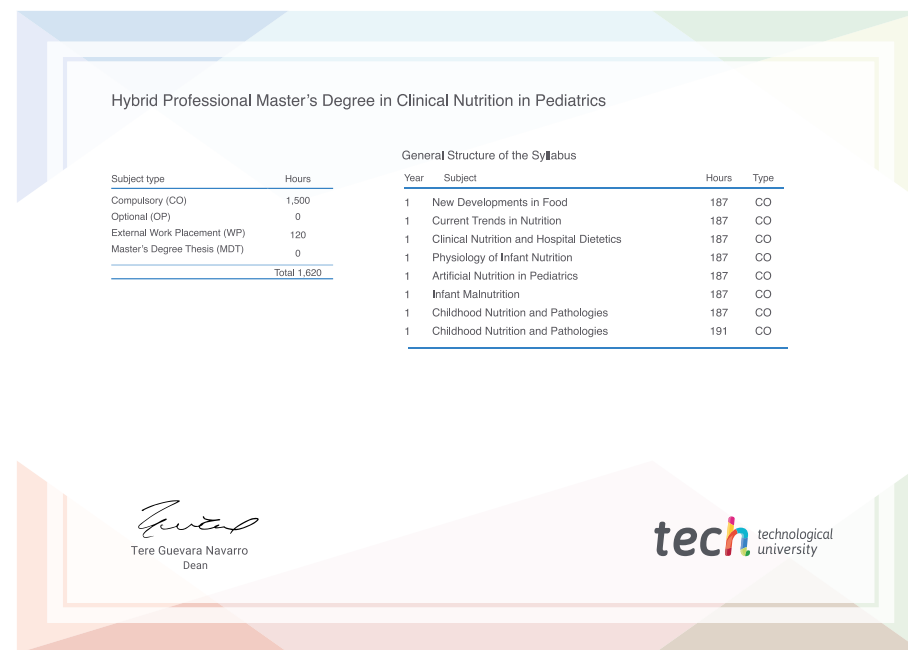
Title: **Hybrid Professional Master's Degree in Clinical Nutrition in Pediatrics**

Modality: **Hybrid (Online + Clinical Internship)**

Duration: **12 months**

Certificate: **TECH Technological University**

Teaching Hours: **1,620 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 languages  
virtual classroom



## Hybrid Professional Master's Degree

Clinical Nutrition in Pediatrics

Modality: Hybrid (Online + Clinical Internship)

Duration: 12 months

Certificate: TECH Technological University

Teaching Hours: 1,620 h.

# Hybrid Professional Master's Degree

## Clinical Nutrition in Pediatrics

