

Hybrid Professional Master's Degree Pediatric Clinical Nutrition for Nursing





Hybrid Professional Master's Degree

Pediatric Clinical Nutrition for Nursing

Modality: Hybrid (Online + Clinical Internship)

Duration: 12 months.

Certificate: TECH Global University

Credits: 60 + 4 ECTS

Website: www.techtute.com/us/nursing/professional-master-degree/professional-master-degree-pediatric-clinical-nutrition-nursing

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01

Introduction

In recent years, Pediatric Clinical Nutrition has undergone a revolution thanks to advances such as Nutrigenomics and Nutrigenetics. Mastering their most updated techniques is essential for nursing staff since they are in charge of supervising their correct application and identifying their advantages and disadvantages in each patient. In response to this context, TECH has designed this program that brings together the latest trends in this field, in a theoretical and practical way. The program is distinguished by its study model which, first, allocates 1,800 hours to the approach of complex concepts in a 100% online learning platform. In the last phase, a rigorous internship will be developed in a prestigious health institution, equipped with modern technologies and a team of experts of excellence.





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TECH offers you a distinctive and efficient update as a nurse, where you will develop both theoretical and practical skills for Pediatric Clinical Nutrition”

Nurses play a key role in the nutritional support of pediatric patients. To do so, they must be able to provide enteral or parenteral nutrition, depending on the individual needs of each patient. In addition, they are responsible for assessing nutritional status and monitoring changes over time. Therefore, they are in charge of measuring height, body mass index, skin folds, among other indicators. In recent times, modern tools and techniques have appeared that facilitate these procedures, as well as food monitoring to ensure adequate nutrient intake. However, keeping up to date with all these advances is complex for these professionals due to the scarcity of specific programs in the educational market.

That is why TECH has designed this Hybrid Professional Master's Degree in Pediatric Clinical Nutrition for Nursing. The degree offers a pioneering learning option in its type as it consists of two distinct stages. In the first stage, participants study in a theoretical way all the advances in this health sector, dedicating 1,800 hours of academic analysis to the contents provided in a 100% online and interactive platform. From there, they will be able to reinforce their knowledge through multimedia resources such as infographics, videos and interactive summaries. The most important didactic weight in this model falls on Relearning, a rigorous methodology that allows a more flexible and rapid mastery of all subjects.

In the second phase, the nurses will have at their disposal a clinical n internship of 120 hours in a hospital center of international reference. The educational process, face-to-face and intensive, is organized from Monday to Friday for 3 weeks, during which they will have access to the most modern technologies and care protocols. In addition, they will have direct contact with real patients and will receive advice from leading experts and an assistant tutor of the highest prestige.

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

- ♦ Development of more than 100 clinical cases presented by nursing professionals in Pediatric Clinical Nutrition
- ♦ 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
- ♦ Comprehensive systematized action plans for the main pathologies of Pediatric Clinical Nutrition
- ♦ With a special emphasis on evidence-based medicine and research methodologies in Intensive Care Nursing
- ♦ 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
- ♦ Furthermore, you will be able to carry out a clinical internship in one of the best hospital centers



Enroll with TECH and you will have 1,800 hours for the theoretical mastery of powerful nursing skills for the management of pediatric patients with eating disorders”

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In 3 weeks, the practical training of this Hybrid Professional Master's Degree will allow you to give personalized assistance and care to children and adolescents with real and specific nutritional pathologies”

In this Hybrid Professional Master's Degree, with a vocational nature and blended learning modality, the program is aimed at updating nursing professionals who require a high level of qualification. The content is based on the latest scientific evidence and is organized in a didactic way to integrate theoretical knowledge into nursing practice. The theoretical-practical elements allow professionals to update their knowledge and help them to make the right decisions in patient care.

Thanks to the multimedia content, developed with the latest educational technology, nursing professionals will benefit from situated and contextual learning, i.e., a simulated environment that will provide immersive learning programmed to train in real situations. This program is designed around Problem-Based Learning, whereby the professional must try to solve the different professional practice situations that arise throughout the program. For this purpose, students will be assisted by an innovative interactive video system created by renowned experts in the field of educational coaching with extensive experience.

This Hybrid Professional Master's Degree will update you on the most efficient techniques to provide enteral or parenteral nutrition as a nurse to pediatric patients.

The 120 hour internship of this program will allow you to interact directly with great experts in Pediatric Clinical Nutrition and apply your most updated skills.



02

Why Study this Hybrid Professional Master's Degree?

This Hybrid Professional Master's Degree is essential for nurses looking to acquire advanced skills and update on the latest trends in the field of Pediatric Clinical Nutrition. This educational program not only provides the opportunity to study in one of its phases 100% online and access the latest information about this field. It also offers an internship in a prestigious international health institution. Therefore, participants will be able to develop skills and acquire the necessary experience to provide optimal nutritional support to children and adolescents.



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With TECH, from the first day, you will work directly with real patients and, therefore, you will reinforce the development of new skills with a marked avant-garde character”

1. Updating from the latest technology available

TECH will train the nurses participating in this degree program with modern protocols and care tools in Pediatric Clinical Nutrition. The program combines theory and practice, providing in-depth knowledge in advanced devices and their specific application in the care of pediatric patients with special nutritional requirements.

2. Gaining in-depth knowledge from the experience of top specialists

Throughout this program, the nurse will have a team of excellent teachers who will provide personalized guidance at all times. These professors have chosen the contents of the syllabus based on their daily practical experiences, thus providing the degree with an in-depth analysis of the most common problems of daily work practice.

3. Entering first-class clinical environments

At the same time, TECH provides nurses with a hands-on, in-person internship to develop advanced skills in the management of complex technological tools in Pediatric Clinical Nutrition. Students will have the opportunity to work with state-of-the-art devices and perfect their procedures through rigorous and demanding training.





4. Combining the best theory with state-of-the-art practice

This TECH Hybrid Professional Master's Degree allows nurses to expand their skills in nutritional assessment and monitoring of pediatric patients during the 3-week clinical training. The innovative learning methodology provides hands-on work experience from the beginning, which helps the student develop practical skills rather than mastering tedious theoretical content.

5. Expanding the boundaries of knowledge

Thanks to TECH's strong institutional relationships, the Hybrid Professional Master's Degree in Pediatric Clinical Nutrition for Nursing offers the opportunity to access the most prestigious hospitals in the world. Therefore, students will have the opportunity to carry out highly demanding internships, which will allow them to consolidate their knowledge in a real environment of great professional rigor.

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

03 Objectives

This Hybrid Professional Master's Degree aims to provide the nurse with the most complete update on the main developments in Pediatric Clinical Nutrition. With a comprehensive and pioneering learning methodology of TECH, this educational program offers maximum guarantees for the professional to overcome and continue their preparation. Through its syllabus, composed of two distinct parts, participants will develop practical skills for optimal quality care work in this demanding and competitive field.



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Complete the updating of your skills as a nurse for Pediatric Clinical Nutrition through this excellent Hybrid Professional Master's Degree from TECH”



General Objective

- The main objective of this degree is to give nursing professionals access to the most up-to-date content in Pediatric Clinical Nutrition and, at the same time, to reinforce these practical competencies through two distinct educational stages. First, they will be introduced to the most innovative protocols through a 100% online phase. Subsequently, they will have the opportunity to apply new skills in a clinical practice, face-to-face and immersive, in a medical institution of international prestige. With this combination of teaching strategies, the graduate will obtain a more complete profile and prestige in their field

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Do not miss the moment and enroll in this TECH program that provides you with the most excellent practical skills in a combination of online and face-to-face modality”





Specific Objectives

Module 1. New Developments in Nutrition

- ♦ 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
- ♦ Evaluate 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 fundamentals 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 child 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 formulas 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 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

Module 7. Childhood Nutrition and Digestive 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 Non-Digestive 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



Delve into the most relevant theory in this field, subsequently applying it in a real work environment"

04 Skills

Upon completion of this educational program, the nurse will have the theoretical and practical skills necessary to address complex conditions such as Diabetes and Childhood Obesity in their daily practice. From the deep mastery of these fields, they will become a prestigious professional, with the opportunity to access different spheres of work performance.



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This Hybrid Professional Master's Degree is all you need to become a prestigious nurse and implement the evaluation and monitoring of children with nutritional support in hospital environments”



General Skills

- ♦ 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 their 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

- ♦ 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 newborn 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
- ♦ Determine the correct dietary management of the diabetic child to ensure proper development and growth and to avoid complications

05

Course Management

The Hybrid Professional Master's Degree in Pediatric Clinical Nutrition for Nursing has a highly qualified teaching staff, carefully selected by TECH. These professionals have created a complete and updated syllabus with the latest techniques and technologies for the care of patients with eating disorders. With the help of these professors, TECH graduates will be able to take on different challenges in their daily practice and, thus, provide rigorous and demanding care to each of the children and adolescents under their supervision.





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TECH teachers will support you with a personalized guide, based on the most updated contents in Pediatric Clinical Nutrition for Nursing”

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

- ♦ 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 Clinical Nutrition Expert
- ◆ Author of the reference book in the field of Clinical Nutrition, Dietary Management of Overweight in the Pharmacy Office(Editorial M3dica 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

Structure and Content

The Hybrid Professional Master's Degree in Pediatric Clinical Nutrition for Nursing is distinguished by its in-depth and comprehensive curriculum that addresses various topics relevant to the care of children and adolescents with feeding problems. The program includes the latest information about pathologies such as Obesity and Diabetes, as well as the necessary nursing procedures for their treatment. TECH's 100% online and interactive platform allows access to these contents, in the fastest and most flexible way. In addition, the degree is supported by the innovative didactic method of Relearning.





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The syllabus of this Hybrid Professional Master's Degree is distinguished by multimedia materials of great educational value such as videos and infographics”

Module 1. New Developments in Nutrition

- 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. 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 Eating. 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 Newborn
- 4.6. Current Trends in Premature Newborn Nutrition
- 4.7. Nutrition in Lactating Women and Its Impact on the Infant
- 4.8. Nutrition of Newborns with Intrauterine Growth Delay
- 4.9. Breastfeeding
 - 4.9.1. Breast 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 Infant 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 Pediatric Nutrition
 - 5.2.2. Parenteral Pediatric 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 Childhood Nutrition

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 Childhood Nutrition
 - 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 Digestive Pathologies

- 7.1. Nutrition of Children with Oral Pathologies
 - 7.1.1. Main 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 Non-Digestive Pathologies

- 8.1. Eating Difficulties and Disorders in Children
 - 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 the Diabetic Child
 - 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



100% online, interactive and without pre-established schedules: this is the platform that TECH puts in your hands for your update"

07

Clinical Internship

This Hybrid Professional Master's Degree in Pediatric Clinical Nutrition for Nursing, with the support of an adjunct tutor, offers a first-rate practical and face-to-face internship. This approach, integrated by TECH with professionalism, differentiates it from any other program on the market.





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Perform your clinical internship as a nurse dedicated to Pediatric Clinical Nutrition in a hospital center of the highest prestige”

In this program, the nurse will have the opportunity to perform an intensive face-to-face clinical internship in a hospital center of international prestige. In addition, they will be able to choose the facility that best suits their geographical location. The internship lasts 3 weeks, 8 hours a day, Monday through Friday. This experience will allow the student to apply the knowledge acquired in the theoretical part and develop practical skills with the accompaniment of experts in the field of Pediatric Clinical Nutrition.

The practical teaching will be done with the accompaniment and guidance of professors and other fellow trainees that facilitate teamwork and multidisciplinary integration as transversal competencies for medical praxis (learning to be and learning to relate).

The procedures described below will be the basis of the specialization, and their realization will be subject to the center's own availability, its usual activity and workload, the proposed activities being the following:

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Receive specialized education in an institution that can offer you all these possibilities, with an innovative academic program and a team that will help you develop your full potential”





Module	Practical Activity
Trends in Pediatric Clinical Nutrition Nursing	Periodically examine the basis of physiological regulation of feeding, appetite and satiety in children and adolescents
	Monitor the outcomes in the pediatric and/or adolescent patient after the incorporation of transgenic foods
	Assess the incidence of immunonutrition strategies in the management of pediatric patients with nutritional deficiencies
Nutritional Treatment in Pediatric Gastroenterology by Nurses	Verify the correct, dosed and gradual introduction of allergenic foods in the diet of children and adolescents with intolerances
	Supervise the patient's intake of food substitutes in their diets
	Verify the status of esophagogastric alterations in children and adolescents and report them
	Monitor low intake of fermentable oligosaccharides, disaccharides, monosaccharides and polyols (FODMAP diets) in child patients with irritable colon, problems with intestinal transit, abdominal bloating and flatulence
Relationship of Endocrine Pathology and Diets for Nurses	Detect the etiology, repercussions and treatment that best suits patients with childhood obesity
	Recommend or advise physicians against the use of glucose-controlling medications or injections, depending on the monitoring of the child or adolescent's condition
	Participate with clinicians in dynamic swallowing studies in the child or endoscopic evaluation of different pathologies
Pediatric Hospital Nutrition for Nursing	Anticipate and report complications of bidirectional drug-nutrient interactions in pediatric patients on inpatient nutrition
	Periodically check that eternal (tube feeding) or parenteral (directly into the bloodstream) nutrition is being performed correctly
	Evaluate the child's or adolescent's response to the prescription and use of the DASH Diet as a treatment for cardiovascular disease
	Monitor the nutritional support of the child or adolescent with oncologic pathologies in the different phases of the disease

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 program agreement shall be 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?

The hands-on internship of this Hybrid Professional Master's Degree involves an intensive, in-person stay at a prestigious hospital so that nurses can hone their skills in an enriching learning environment. They will be guided by prestigious experts and will have access to the most advanced technological resources to provide state-of-the-art care to pediatric patients with specific nutritional needs.





“

Now is your chance to become a prestigious nurse, updated according to the latest trends in Pediatric Clinical Nutrition. Enroll now!”



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



Nursing

Centro Médico Villanueva de la Cañada

Country	City
Spain	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

Related internship programs:

- Clinical Nutrition in Pediatrics
- Clinical Nutrition



Nursing

Hospital HM Regla

Country	City
Spain	León

Address: Calle Cardenal Landázuri, 2, 24003, León

Network of private clinics, hospitals and specialized centers distributed throughout Spain.

Related internship programs:

- Psychiatric Treatments Update in Minor Patients



Nursing

Hospital HM Nou Delfos

Country	City
Spain	Barcelona

Address: Avinguda de Vallcarca, 151, 08023, Barcelona

Network of private clinics, hospitals and specialized centers distributed throughout Spain.

Related internship programs:

- Aesthetic Medicine
- Clinical Nutrition in Medicine



Nursing

Hospital HM Nuevo Belén

Country	City
Spain	Madrid

Address: Calle José Silva, 7, 28043, Madrid

Network of private clinics, hospitals and specialized centers distributed throughout Spain.

Related internship programs:

- General and Digestive System Surgery
- Clinical Nutrition in Medicine



Nursing

Policlínico HM Distrito Telefónica

Country	City
Spain	Madrid

Address: Ronda de la Comunicación, 28050, Madrid

Network of private clinics, hospitals and specialized centers distributed throughout Spain.

Related internship programs:

- Optical Technologies and Clinical Optometry
- General and Digestive System Surgery



Nursing

Policlínico HM Gabinete Velázquez

Country	City
Spain	Madrid

Address: C. de Jorge Juan, 19, 1º 28001, 28001, Madrid

Network of private clinics, hospitals and specialized centers distributed throughout Spain.

Related internship programs:

- Clinical Nutrition in Medicine
- Aesthetic Plastic Surgery



Nursing

Policlínico HM Las Tablas

Country	City
Spain	Madrid

Address: C. de la Sierra de Atapuerca, 5, 28050, Madrid

Network of private clinics, hospitals and specialized centers distributed throughout Spain.

Related internship programs:

- Nursing in the Traumatology Department
- Diagnosis in Physiotherapy



Policlínico HM Moraleja

Country: Spain
City: Madrid

Address: P.º de Alcobendas, 10, 28109, Alcobendas, Madrid

Network of private clinics, hospitals and specialized centers distributed throughout Spain.

Related internship programs:

- Rehabilitation Medicine in Acquired Brain Injury Management



Policlínico HM Sanchinarro

Country: Spain
City: Madrid

Address: Av. de Manoteras, 10, 28050, Madrid

Network of private clinics, hospitals and specialized centers distributed throughout Spain.

Related internship programs:

- Gynecological Care for Midwives
- Nursing in the Digestive Tract Department

09

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.



“

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

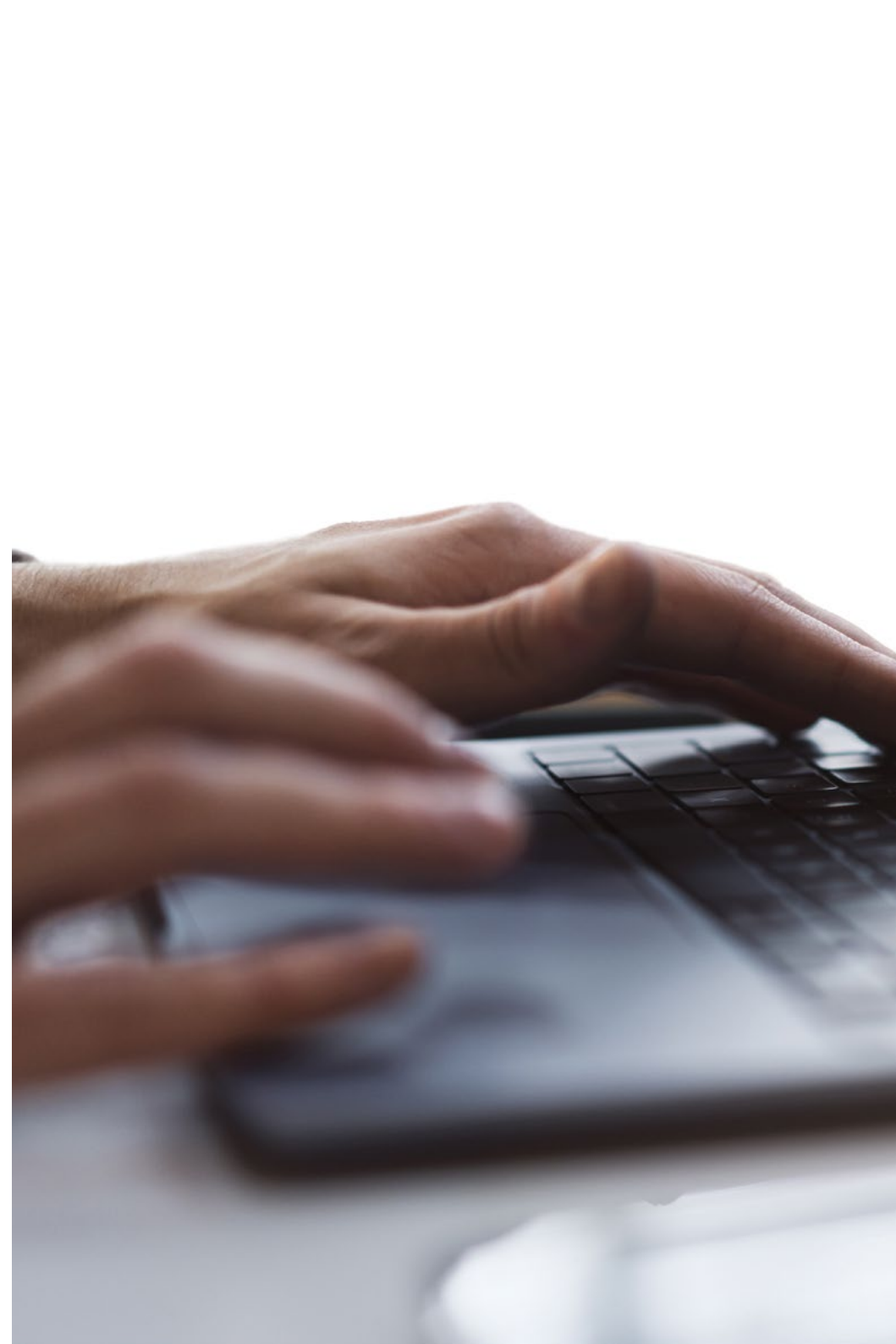
In TECH's study methodology, the student is the main protagonist.

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.

“

*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.



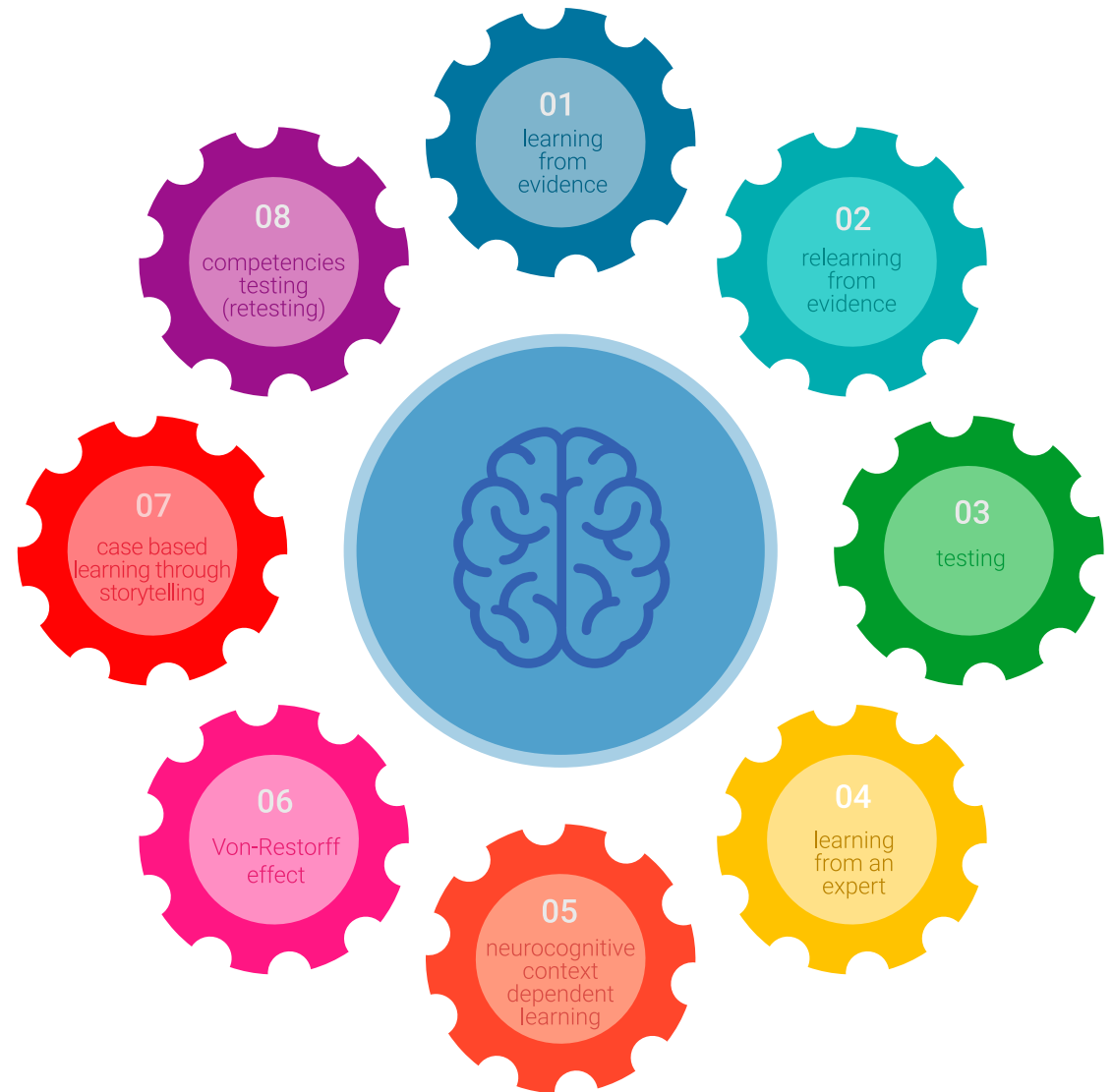
Relearning Methodology

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.

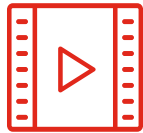
The students' assessment of the quality of teaching, quality of materials, course structure and objectives is excellent. Not surprisingly, the institution became the best rated university by its students on the Trustpilot review platform, obtaining a 4.9 out of 5.

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

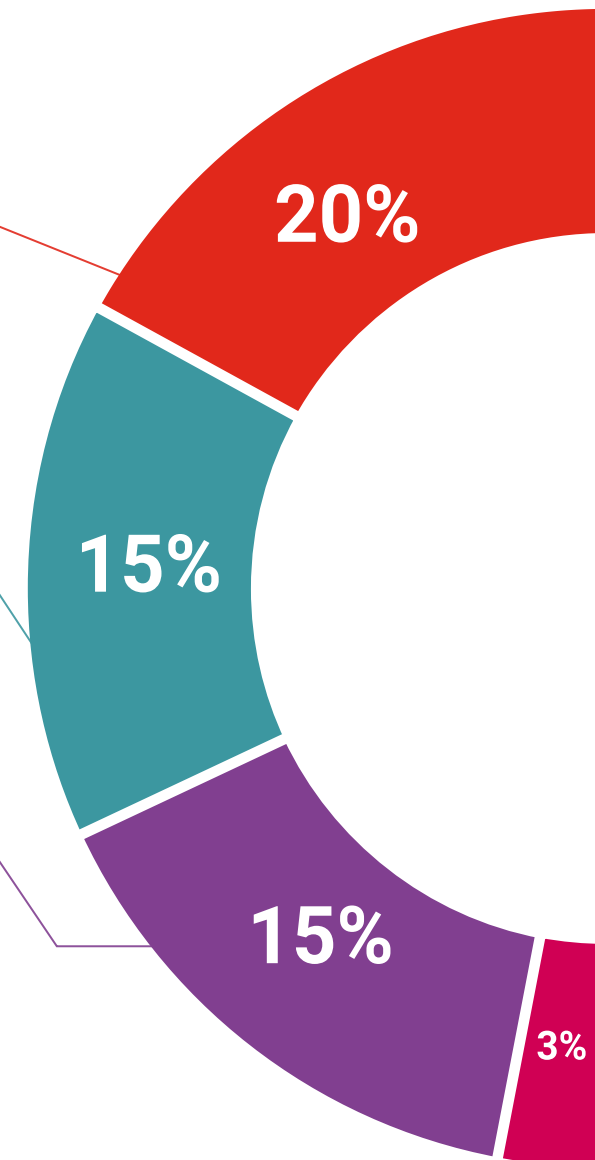
We present the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

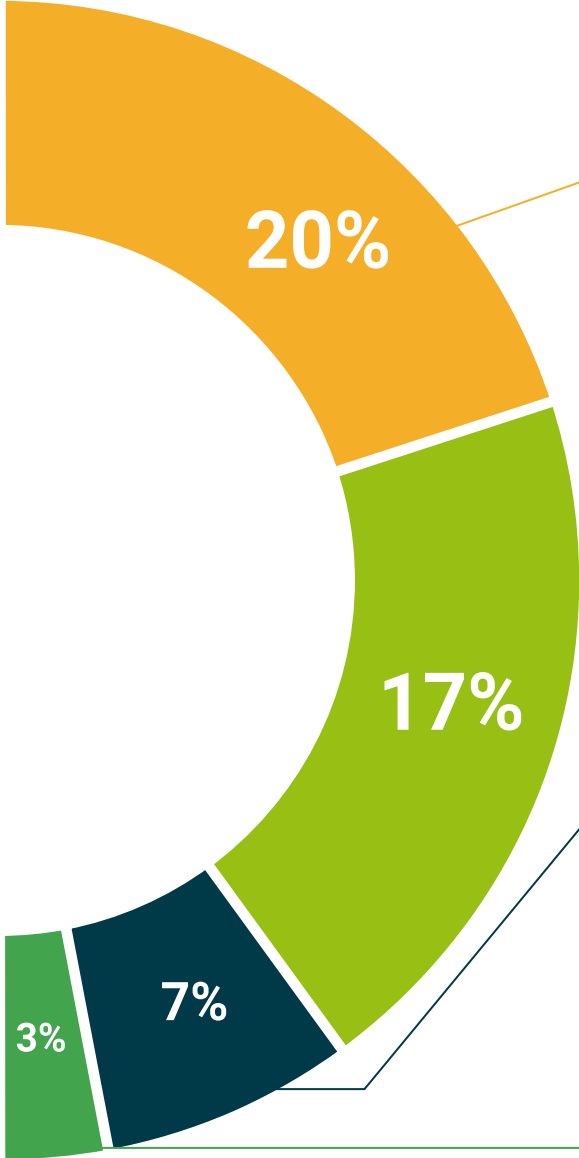
This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



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.



10 Certificate

The Hybrid Professional Master's Degree in Pediatric Clinical Nutrition for Nursing guarantees, in addition to the most rigorous and updated knowledge, access to a Hybrid Professional Master's Degree issued by TECH Global University.



“

*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 **Hybrid Professional Master's Degree diploma in Pediatric Clinical Nutrition for Nursing** 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.

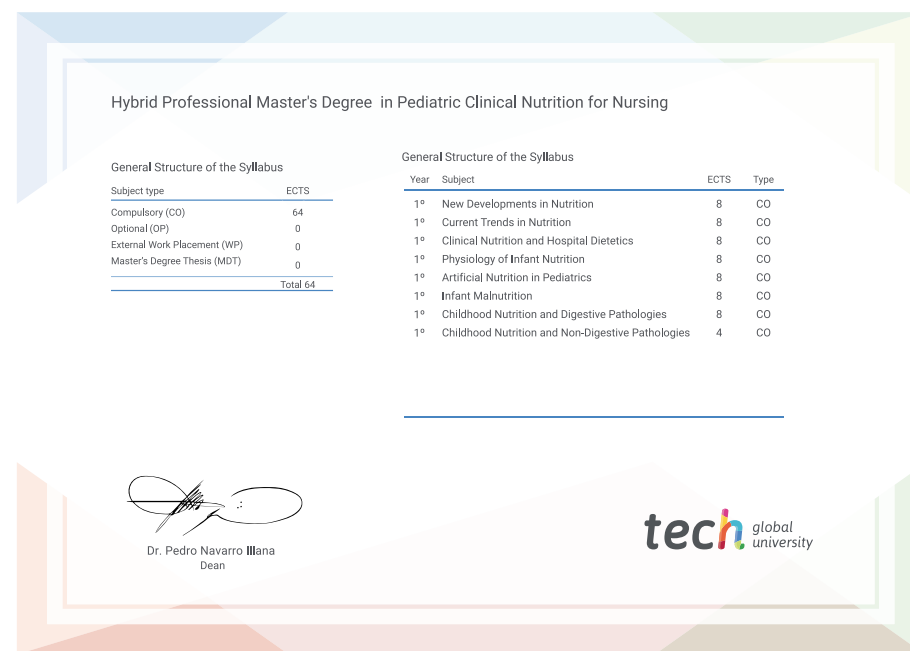
This **TECH Global University private qualification**, is a European program of continuing education and professional updating that guarantees the acquisition of competencies in its area of knowledge, providing a high curricular value to the student who completes the program.

Title: **Hybrid Professional Master's Degree in Pediatric Clinical Nutrition for Nursing**

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

Duration: **12 months**

Credits: **60 + 4 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.



Hybrid Professional Master's Degree

Pediatric Clinical Nutrition for Nursing

Modality: Hybrid (Online + Clinical Internship)

Duration: 12 months

Certificate: TECH Global University

Credits: 60 + 4 ECTS

Hybrid Professional Master's Degree Pediatric Clinical Nutrition for Nursing

