



### Postgraduate Diploma

Nutrition in Childhood and Digestive Tract and Endocrine-Metabolic Pathologies in Diet Therapy

» Modality: online

» Duration: 6 months

» Certificate: TECH Technological University

» Dedication: 16h/week

» Schedule: at your own pace

» Exams: online

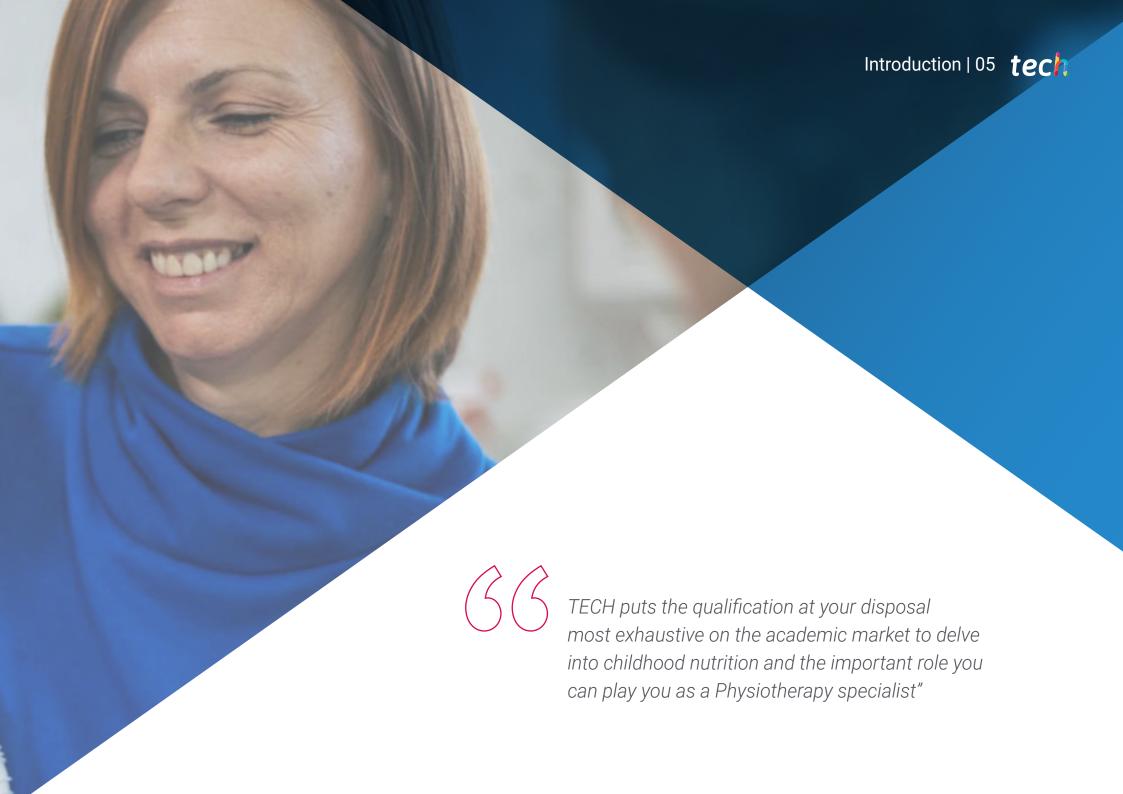
Website: www.techtitute.com/in/physiotherapy/postgraduate-diploma/postgraduate-diploma-nutrition-childhood-digestive-tract-endocrine-metabolic-pathologies-diet-therapy

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### tech 06 | Introduction

Numerous studies carried out in the field of physiotherapy have shown that nutrition plays a fundamental role in the prevention of muscle tissue injuries, since an adequate energy balance, together with sufficient hydration and a correct supply of vitamins, minerals and macronutrients, favors the correct development of the digestive and endocrine-metabolic tract. For this reason, specialists in this sector can work in a combined manner in the use of physical therapies, as well as dietary therapies, especially in rehabilitation processes.

TECH has developed this very comprehensive program in Nutrition in Childhood and Digestive Tract and Endocrine-Metabolic Pathologies in Diet Therapy. It is a 100% online program that includes 450 hours of the best theoretical, practical and additional content, thanks to which the graduate will be able to acquire the most exhaustive and up-to-date knowledge possible from this academic experience. And you will have 6 months to delve into nutrition in childhood and adolescence, in patients with dysfunctions and pathologies throughout the digestive tract and in those who suffer from conditions related to the endocrine-metabolic system.

A team of experts in Nutrition and Endocrinology who have worked hard to put together the best syllabus in the sector, based not only on immediate current events, but also on the most effective teaching methodology. In this way, the specialists will have access to a qualification with which they will be able to update their knowledge in a guaranteed way, through a schedule adapted to their availability and from anywhere, thanks to the compatibility of this experience with any device thanks to the compatibility of this experience with internet connection.

This Postgraduate Diploma in Nutrition in Childhood and Digestive Tract and Endocrine-Metabolic Pathologies in Diet Therapy contains the most complete and up-to-date scientific program on the market. Its most notable features are:

- The development of practical cases presented by experts in Nutrition and Endocrinology
- The graphic, schematic, and practical contents with which they are created, provide scientific and practical information on the disciplines that are essential for professional practice
- Practical exercises where the self-assessment process can be carried out to improve learning
- Its special emphasis on innovative methodologies
- Theoretical lessons, questions to the expert, debate forums on controversial topics, and individual reflection assignments
- Content that is accessible from any fixed or portable device with an Internet connection



You will not find a program like this one that delves so dynamically and intensively into nutrition in dysfunctions and pathologies along the digestive tract"

### Introduction | 07 tech



No schedules or on-site classes: its convenient 100% online format makes this Postgraduate Diploma a unique opportunity to update your knowledge from wherever you want and whenever you can"

The program's teaching staff includes professionals from the sector who contribute their work experience to this educational program, as well as renowned specialists from leading societies and prestigious universities.

The multimedia content, developed with the latest educational technology, will provide the professional with situated and contextual learning, i.e., a simulated environment that will provide immersive education programmed to learn in real situations.

This program is designed around Problem-Based Learning, whereby the professional must try to solve the different professional practice situations that arise during the academic year For this purpose, the student will be assisted by an innovative interactive video system created by renowned and experienced experts.

You will be provided with real clinical cases extracted from the consultation of the team of experts, so that you can work on perfecting your skills in a practical and dynamic way.

A program that delves into the causes and interrelated factors of childhood obesity, so that you can work, from your practice, in its prevention through the latest strategies.





### tech 10 | Objectives

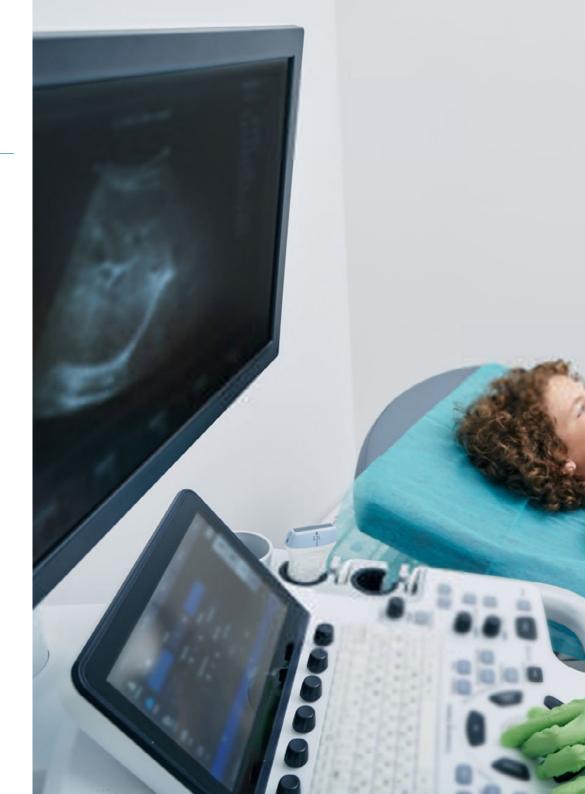


### **General Objectives**

- Broaden knowledge and incorporate advanced and innovative knowledge in food and nutrition in the daily clinical practice of the Specialist.
- Revise the fundamental aspects of healthy eating, with a current approach aimed at risk prevention
- Delve into the correct management of daily nutrition
- Examine the most common syndromes and symptoms related to nutritional problems.



A perfect program to update your knowledge in nutritional education in the child and adolescent patient, the best way to promote healthy lifestyle habits from the doctor's office"





### **Specific Objectives**

#### Module 1. Nutrition in Childhood and Adolescence

- Update knowledge on childhood and adolescent overweight and obesity, epigenetic factors and advances in multidisciplinary management and treatment with special focus on the nutritional approach
- Broaden the specific therapeutic approach to eating disorders and genetic syndromes associated with nutritional alterations
- Study new evidence on feeding models in pediatrics and adolescent medicine.
   Useful tools for consultation

### Module 2. Nutrition in Dysfunctions and Pathologies along the Digestive Tract

- Study the functioning of the digestive tract, functions and pathologies
- Complete evaluation of the clinical case and the digestive health
- Understanding the intestinal microbiota and its relationship with endocrine and nervous system

### Module 3. Nutrition in Endocrine-Metabolic and Autoimmune Pathologies

- Individualize nutritional planning for patients with insulin-dependent DM1 and DM2 and insulin resistance
- Explore adapted nutritional recommendations based on scientific evidence in autoimmune, endocrine and respiratory pathologies.
- Delve into the prevention and treatment of sarcopenia and osteopenia

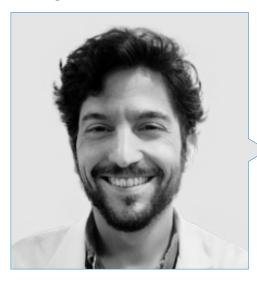






### tech 14 | Course Management

### Management



### Dr. Sánchez Jiménez, Álvaro

- Specialist in Nutrition and Endocrinology at Jiménez Díaz Foundation Hospital university
- Nutritionist at Medicadiet
- Clinical Nutritionist specialized in prevention and treatment of obesity, diabetes and their comorbidities
- Nutritionist in the Predimed Plus Study
- Nutritionist at Eroski
- Nutritionist at Axis Clinic
- Professor, Master's Degree in in Obesity and comorbidities, Rey Juan Carlos University
- Professor of the Excellence Course in Obesity at the Jiménez Díaz Foundation University Hospital
- Graduate in Human Nutrition and Dietetics from the Complutense University of Madrid
- Nutrition in the Elderly, Complutense University of Madrid
- · Nutrition and Sport for Professionals, Tripartite Foundation
- Refresher course on practical type 1 and 2 diabetes for healthcare professionals



### Dr. Vázquez Martínez, Clotilde

- Corporate Head in the University Hospital Endocrinology and Nutrition Departments, Jiménez Díaz La Foundation
- Head of the Endocrinology and Nutrition Service at Móstoles University Hospital
- Head of the Endocrinology and Nutrition Service at Móstoles University Hospital
- President of La Society of Endocrinology, Nutrition, and Diabetes of the Community of Madrid SENDIMAD
- Coordinator Therapeutic Education Group Group of the Spanish Society of Diabetes
- Doctorate from the Faculty of Medicine at the Autonomous University of Madric
- Degree in Medicine and Surgery from the Faculty of Medicine of the University of Valencia
- Specialist in Pediatric Endocrinology and Nutrition at the university Foundation Jimenez Diaz Hospital
- Abraham García Almansa Clinical Nutrition Lifetime Achievement Award
- Recognized among the 100 best Doctors in Spain according to Forbes list
- Castilla La Mancha Diabetes Foundation (FUCAMDI) Diabetes and Nutrition Lifetime Achievement Award



### Dr. Montoya Álvarez, Teresa

- Head of the Endocrinology and Nutrition Service of the Infanta Elena University Hospital
- Head of Volunteering at the Garrigou Foundation
- Graduate in Medicine and Surgery from Universidad de Navarra
- Master in Obesity and its Comorbidities: Prevention, Diagnosis and Integral Treatment at the University Rey Juan Carlos
- Course in Bariatric Antecedents of Surgery Patient Emergencies: Key References for the Attending Physician
- Member of: Institute for Health Research Foundation Jiménez Díaz, Health Commission of FEAPS Madrid and Trisomy 21 Research Society

### **Professors**

### Mr. Martínez Martínez, Alberto

- Clinical Nutritionist at in the Endocrinology and Nutrition Service of the HU Infanta Elena
- Clinical Nutritionist of Endocrinology and Nutrition Department of the university Rey Juan Carlos Hospital
- Dietitian responsible for the menu of children with food allergy. Gastronomic
- Dietician- Clinical Nutritionist at the University Hospital Antonio
- Degree in Human Nutrition and Dietetics. Fluminense Federal University
- Graduate in Human Nutrition and Dietetics at the University of Valencia
- Master's Degree in Agri-environmental and Agri-food Sciences. Autonomous University of Madrid

### Dr. Núñez Sanz, Ana

- Dietician and nutritionist, expert in pregnancy, breastfeeding and infancy
- López-Nava Obesity Nutritionist
- Nutritionist at Medicadiet
- Dietitian and Nutritionist Freelancer
- Dietitian and nutritionist at Menudiet SL
- Contributor on food and nutrition in Castilla La Mancha Television
- Promoter of talks and workshops on healthy eating for kindergartens, schools and companies
- Graduate in Human Nutrition and Dietetics at the Complutense University of Madrid
- Master's Degree in Nutrition and Health at the Open Official of Catalonia

#### Dr. Prieto Moreno, Ana

- Nutritionist in the Department of Endocrinology and Nutrition at Jiménez university Foundation Hospital
- Nutritionist at the General Hospital of Villalba
- Nutritionist at the Infanta Elena University Hospital
- Nutritionist in the Superior Sports Council
- Nutritionist at WWF
- Nutritionist at Medicadiet
- Nutritionist at Sanitas Insurance Company
- Nutritionist at La Paz University Hospital
- Nutritionist at the Mapfre Foundation
- Nutritionist at Copernal Publishing
- Nutritionist at Diabetes Magazine
- Master in Obesity and its Comorbidities, Prevention Strategies, Diagnosis and Integral Treatment at the University of Alcalá
- Master in Physical Anthropology, Human Evolution and Biodiversity at the Complutense University of Madrid
- Degree in Human Nutrition and Dietetics at the Autonomous University of Madrid

### Dr. Gutiérrez Pernia, Belén

- Nutritionist in Obesity Symptoms at Medicadiet
- López-Nava Obesity Nutritionist. Madrid
- Dietician and Nutritionist in Research Projects of PREDIMED plus
- Grade in Human Nutrition and Dietetics from the Autonomous University of Madrid
- Master in Clinical Nutrition and Endocrinology at the Institute of Nutrition and Health Sciences

### Dr. Hoyas Rodríguez, Irene

- Specialist in Endocrinology and Nutrition
- Specialist in Endocrinology and Nutrition at the Fundación Jiménez Díaz and Infanta Elena Hospitals
- Specialist in Endocrinology and Nutrition at the Beata María Ana Hospital
- Specialist in Endocrinology at the University Hospital 12 de Octubre
- Degree in Medicine from the Complutense University of Madrid
- Postgraduate course in Treatment of Diabetes Mellitus Type 2 at the Autonomous University of Barcelona

#### Dr. Fernández Menéndez, Amanda

- Doctor Specialist in Pediatric Endocrinology and Nutrition at the university Foundation Jimenez Diaz Hospital
- Specialist in Pediatrics, Centro de Salud Doctor Castroviejo( SERMAS)
- Attending physician specializing in Pediatric Endocrinology and Nutrition at La Paz University Hospital
- International Cooperation in Health and Development in India (development of health projects in the field)
- Degree in Medicine and Surgery from the Autonomous University of Madrid
- Master in Obesity and its Comorbidities: Prevention, Diagnosis and Integral Treatment at the University Rey Juan Carlos
- Expert in Clinical Bioethics from the Complutense University

### tech 18 | Course Management

#### Ms. Labeira Candel, Paula

- Clinical nutritionist in the Bariatric Endoscopy Unit at HM Hospitales
- Sports and clinical nutritionist at the Clinic Institute of Instituto de Sobrepeso y Obesidad
- · Nutritionist Sports and Clinical at Medicadiet, Slimming & Nutrition
- Sports Nutritionist at the CF TrivalValderas de Alcorcón
- Food and water quality analyst in the Andalusian Health Service
- Diploma in Human Nutrition and Dietetics at the Pablo Olavide University of Seville
- Bachelor 's Degree in Food Science and Technology
- Diploma in Human Nutrition and Dietetics
- Master's Degree in Sports Training and Nutrition at the European University of Madrid

### Ms. López Escudero, Leticia

- Nutritionist at Diet La Clinic
- Clinical Dietician and Nutritionist at La Hospital university Fundación Jiménez Díaz
- Dietician and Clinical Nutritionist at the University Hospital Infanta Elena
- Lecturer in graduate studies Degree in Human Nutrition and Dietetics
- Graduate in Human Nutrition and Dietetics at the Complutense University of Madrid
- Master in Obesity and its Comorbidities: Prevention, Diagnosis and Integral Treatment at the University Rey Juan Carlos
- Master's Degree in Nutrition in Physical Activity and Sport, Open University of Catalunya (UOC)

### Dr. Miguélez González, María

- Attending Physician of Endocrinology and Nutrition at the University Hospital Jiménez Díaz Foundation of Madrid
- Degree in Medicine from the University of Valladolid
- Collaborating lecturer in the subject of Ophthalmology at the Complutense University of Madrid
- Professor of the Master Expert in Obesity and Metabolic Complications, endorsed by SEEDO



A unique, key, and decisive educational experience to boost your professional development"







### tech 22 | Structure and Content

### Module 1. Nutrition in Childhood and Adolescence

- 1.1. Causes and Interrelated Factors of Childhood Obesity
  - 1.1.1 Obesogenic Environment in Childhood
  - 1.1.2 Assessment of Individual, Family and Socioeconomic Problems
- 1.2. Risks of Childhood Obesity
  - 1.2.1 Prevention and Adapted Diet Therapy
  - 1.2.2 Physical Activity and Physical Exercise
- 1.3. Nutritional Education
  - 1.3.1 Nutritional Recommendations
  - 1.3.2 Personalized Calculation of Plans for the Treatment of Childhood and Adolescent Obesity
- 1.4. Dietary Patterns and Food Recommendations
  - 1.4.1 Consultation Tools
- 1.5. Genetic Alterations and Predisposition to Obesity in Children and Adults
- 1.6. Prevention and Management of Other Eating Disorders in Children and Adolescents
- 1.7. Psychological Aspects of Childhood Obesity in Nutritional Consultation
- 1.8. Nutrition in Special Situations: Celiac Disease Food Allergy
- 1.9. Nutrition in Special Situations: Diabetes and Dyslipemia
- 1.10. Nutrition and Growth Disorders
  - 1.10.1 Nutrition in Later Stages of the Preterm or SGA Patient

### **Module 2.** Nutrition in Dysfunctions and Pathologies along the Digestive Tract

- 2.1. Digestive History, and Assessment of Variables, Symptomatology and Previous Eating Habits
- 2.2. Mouth: Nutrition in Mucositis, Xerophthalmia, Dysphagia, and Oral Dysbiosis
- 2.3. Esophagus: Nutrition in Gastroesophageal Reflux Disease and Barret's Esophagus
- 2.4. Stomach: Nutrition in Gastritis, Hiatus Hernia, Dyspepsia, Helicobacter Pylori Infection
- 2.5. Constipation and Symptomatology
  - 2.5.1 Associated Pathologies
- 2.6. Acute and Chronic Diarrhea
- 2.7. Inflammatory Bowel Diseases





### Structure and Content | 23 tech

- 2.8. Differentiation between Malabsorption, Intolerances and Allergies
  - 2.8.1 Enzyme Deficiency and Immune System
  - 2.8.2 Diet Low in Histamine and DAO Deficiency
- 2.9. Dysbiosis, Bacterial Overgrowth and Nutrient Malabsorption
- 2.10. Celiac Disease and Non-Celiac Gluten Sensitivity (NCGS)

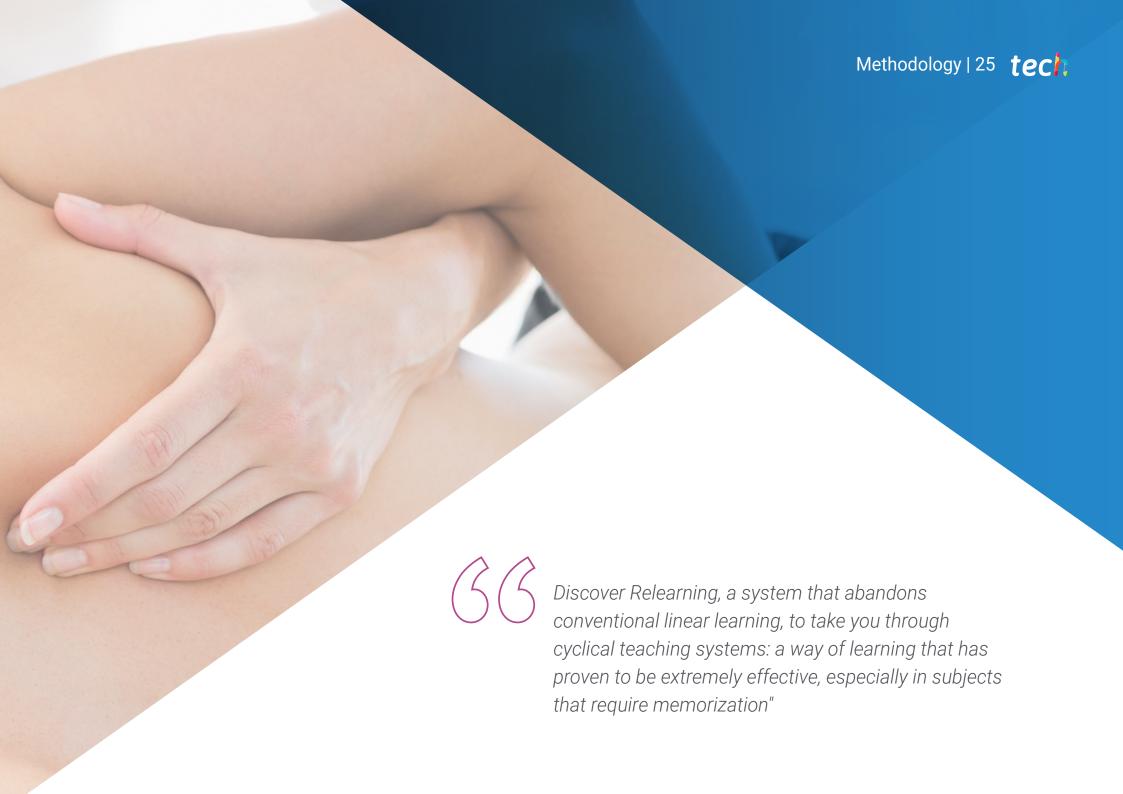
### Module 3. Nutrition in Endocrine-Metabolic and Autoimmune Pathologies

- 3.1. Type 1 Diabetes
  - 3.1. 1 Nutrition in Insulin-Dependent Patients
- 3.2. Insulin Resistance and Type 2 Diabetes
- 3.3. Nutrition in Thyroid Disorders
  - 3.3.1 Hypothyroidism
  - 3.3.2 Hyperthyroidism
- 3.4. Nutrition and Circadian Rhythms: Chronobiology
- 3.5. Nutrition in the Physiological Menstrual Cycle and its Alterations
  - 3.5.1 Amenorrea
  - 3.5.2 Polycystic Ovarian Syndrome
  - 3.5.3 Endometriosis
- 3.6. Nutrition in Autoimmune Pathology
  - 3.6.1 Rheumatoid Arthritis
  - 3.6.2 Psoriasis
  - 3.6.3 Lupus
- 3.7. Muscle
  - 3.7.1 Sarcopenia
- 3.8. Bone Health
  - 3.8.1 Osteopenia
  - 3.8.2 Osteoporosis
- 3.9. Nutrition in Pulmonary Pathologies
  - 3.9.1 Cystic Fibrosis
  - 3.9.2 COPD
  - 3.9.3 Obstructive Sleep Apnea Syndrome (OSAS)
- 3.10. Chronic Fatigue, Anemia and Vitamin D Deficiency



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.

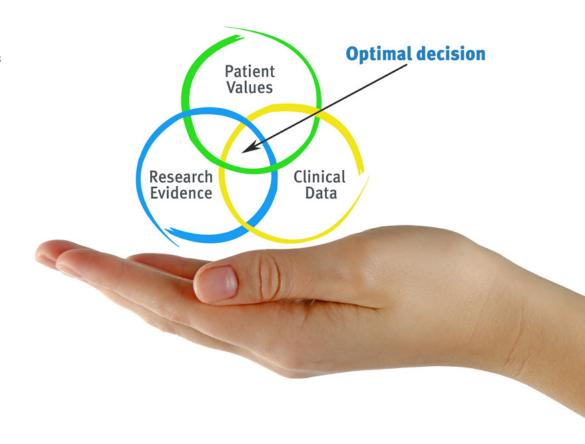


### tech 26 | Methodology

#### At TECH we use the Case Method

What should a professional do in a given situation? Throughout the program, students will face multiple simulated clinical cases, based on real patients, in which they will have to do research, establish hypotheses, and ultimately resolve the situation. There is an abundance of scientific evidence on the effectiveness of the method. Physiotherapists/kinesiologists learn better, faster, and more sustainably over time.

With TECH you will experience a way of learning that is shaking the foundations of traditional universities around the world.



According to Dr. Gérvas, the clinical case is the annotated presentation of a patient, or group of patients, which becomes a "case", an example or model that illustrates some peculiar clinical component, either because of its teaching power or because of its uniqueness or rarity. It is essential that the case is based on current professional life, trying to recreate the real conditions of professional physiotherapy 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. Physiotherapists/kinesiologists who follow this method not only grasp concepts, but also develop their mental capacity, by evaluating real situations and applying their knowledge.
- 2. The learning process has a clear focus on practical skills that allow the physiotherapist/kinesiologist to better integrate into the real world.
- 3. Ideas and concepts are understood more efficiently, given that the example situations are based on real-life.
- 4. Students like to feel that the effort they put into their studies is worthwhile. This then translates into a greater interest in learning and more time dedicated to working on the course.





### Relearning Methodology

At TECH we enhance the case method with the best 100% online teaching methodology available: Relearning.

This university is the first in the world to combine the study of clinical cases with a 100% online learning system based on repetition, combining a minimum of 8 different elements in each lesson, a real revolution with respect to the mere study and analysis of cases.

The physiotherapist/kinesiologist 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.



### Methodology | 29 tech

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 we trained more than 65,000 physiotherapists/kinesiologists with unprecedented success in all clinical specialties, regardless of the workload. Our pedagogical methodology is developed in a highly competitive environment, with a university student body with a strong socioeconomic profile and an average age of 43.5 years old.

Relearning will allow you to learn with less effort and better performance, involving you more in your 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 our 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 really 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.



#### **Physiotherapy Techniques and Procedures on Video**

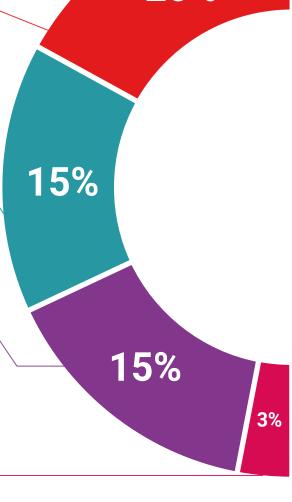
TECH brings students closer to the latest techniques, the latest educational advances and to the forefront of current Physiotherapy techniques and procedures. All of this in direct contact with students and explained in detail so as to aid their assimilation and understanding. And best of all, you can watch them as many times as you want.



#### **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 unique multimedia content presentation training system was awarded by Microsoft as a "European Success Story".





#### **Additional Reading**

Recent articles, consensus documents and international guidelines, among others. In TECH's virtual library, students will have access to everything they need to complete their course.

### **Expert-Led Case Studies and Case Analysis**

Effective learning ought to be contextual. Therefore, TECH presents real cases in which the expert will guide students, focusing on and solving the different situations: a clear and direct way to achieve the highest degree of understanding.



#### **Testing & Retesting**

We periodically evaluate and re-evaluate students' knowledge throughout the program, through assessment and self-assessment activities and exercises, so that they can see how they are achieving their goals.



#### Classes

There is scientific evidence on the usefulness of learning by observing experts.

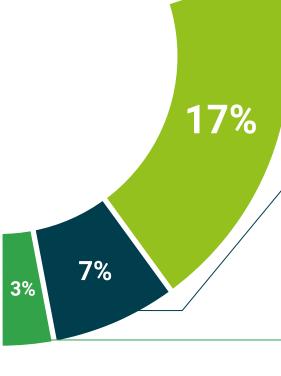
The system known as Learning from an Expert strengthens knowledge and memory, and generates confidence in future difficult decisions.



#### **Quick Action Guides**

TECH offers the most relevant contents of the course in the form of worksheets or quick action guides. A synthetic, practical, and effective way to help students progress in their learning.





20%





### tech 34 | Certificate

This Postgraduate Diploma in Nutrition in Childhood and Digestive Tract and Endocrine-Metabolic Pathologies in Diet Therapy contains the most complete and upto-date scientific program on the market.

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

The certificate issued by **TECH Technological University** will reflect the qualification obtained in the Postgraduate Diploma, and meets the requirements commonly demanded by labor exchanges, competitive examinations, and professional career evaluation committees.

Title: Postgraduate Diploma in Nutrition in Childhood and Digestive Tract and Endocrine-Metabolic Pathologies in Diet Therapy

Official No of Hours: 450 h.



r./Ms. \_\_\_\_\_, with identification number \_\_\_\_\_ For having passed and accredited the following program

#### **POSTGRADUATE DIPLOMA**

in

#### Nutrition in Childhood and Digestive Tract and Endocrine-Metabolic Pathologies in Diet Therapy

This is a qualification awarded by this University, equivalent to 450 hours, with a start date of dd/mm/yyyy and an end date of dd/mm/yyyy.

TECH is a Private Institution of Higher Education recognized by the Ministry of Public Education as of June 28, 2018.

June 17, 2020

Tere Guevara Navarro

This qualification must always be accompanied by the university degree issued by the competent authority to practice professionally in each count

Inique TECH Code: AFWORD23S techtitute.com/cert

<sup>\*</sup>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.



## Postgraduate Diploma

Nutrition in Childhood and Digestive Tract and Endocrine-Metabolic Pathologies in Diet Therapy

- » Modality: online
- » Duration: 6 months
- » Certificate: TECH Technological University
- » Dedication: 16h/week
- » Schedule: at your own pace
- » Exams: online

