



### Postgraduate Diploma

Nutrition in Special Populations in Diet Therapy

» Modality: online

» Duration: 6 months

» Certificate: TECH Technological University

» Dedication: 16h/week

» Schedule: at your own pace

» Exams: online

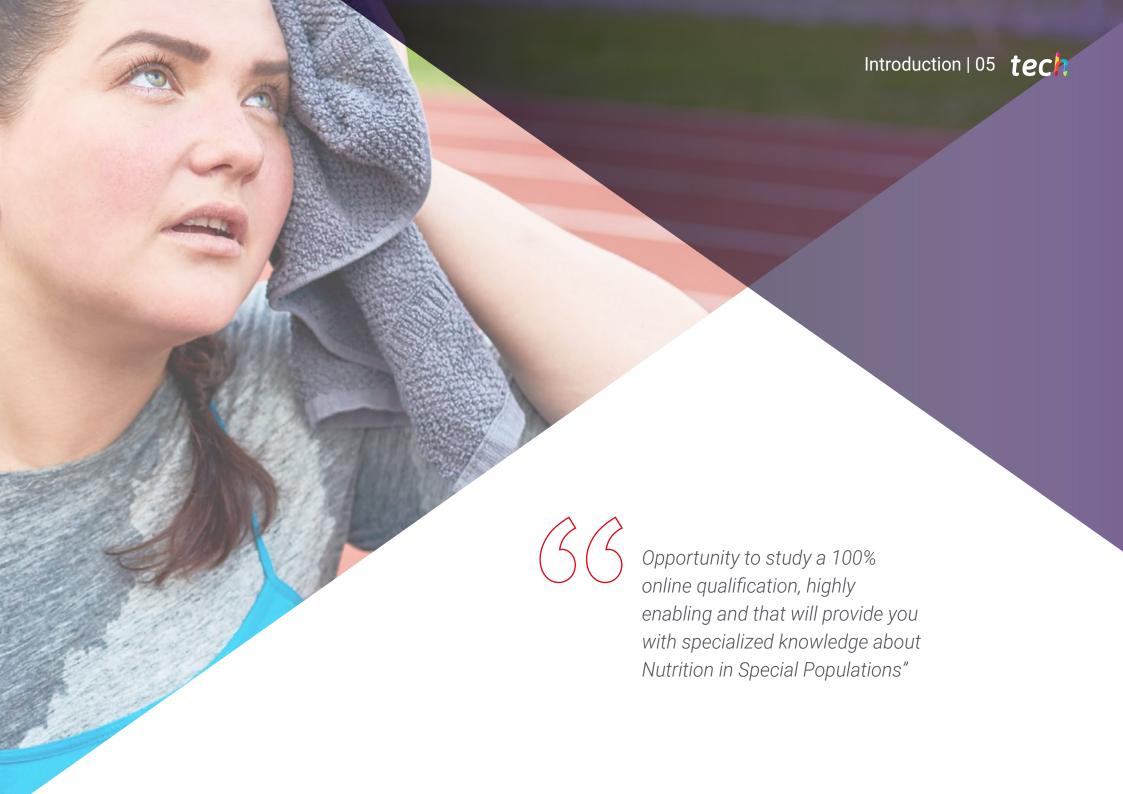
Website: www.techtitute.com/pk/nutrition/postgraduate-diploma/postgraduate-diploma-nutrition-special-populations-diet-therapy

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### tech 06 | Introduction

Numerous studies over the years have determined that excessive consumption of red meat and alcohol intake can be excessively harmful to health, increasing the likelihood of cardiovascular disease. However, a balanced diet, rich in certain nutrients, can have a positive influence on the prevention and treatment of kidney, liver and pancreatic diseases, or even those related to the nervous system, such as depression.

For this reason, the nutritionist must be aware of the advances in the field of health, in order to be able to adapt the diets he/she prepares to the most effective and appropriate recommendations according to each pathology. This is precisely the aspect that is the focus of this Postgraduate Diploma in Nutrition in Special Populations in Diet Therapy. This is a degree that combines in a convenient and intensive 100% online format, the latest developments related to dietetics and health, with special emphasis on the pathologies of the nervous system, renal, hepatic and pancreatic diseases and on the oncological patient.

Through an exhaustive and modern syllabus, the graduate will go through the specifics of each case, being able to update their knowledge and expand it thanks not only to the theoretical content, but also to the variety of additional material they will find in the Virtual Classroom (video summaries of each unit, complementary readings and research articles). In addition, you will be able to perfect your skills through practice with real clinical cases that the teaching team will make available to you.

This **Postgraduate Diploma in Nutrition in Special Populations in Diet Therapy** contains the most complete and up-to-date scientific program on the market. The most important features include:

- 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 self-assessment can be used 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 have access to a complete, innovative and exhaustive syllabus that will delve, among other aspects, into nutrition in renal, hepatic and pancreatic diseases"



In the Virtual Classroom you will find research articles and complementary readings related to nutrition in pathologies of the nervous system, so that you can continue to deepen your knowledge beyond the syllabus"

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, students will be assisted by an innovative, interactive video system created by renowned and experienced experts.

Nutrition can also have a positive influence on the treatment of psychological and emotional pathologies. That is why we have included a module that delves into the specifics of depression and bipolar disorder.

Renal lithiasis is of concern to many specialists. Learn more about its causes and get updated on nutritional recommendations for its prevention.







### tech 10 | Objectives

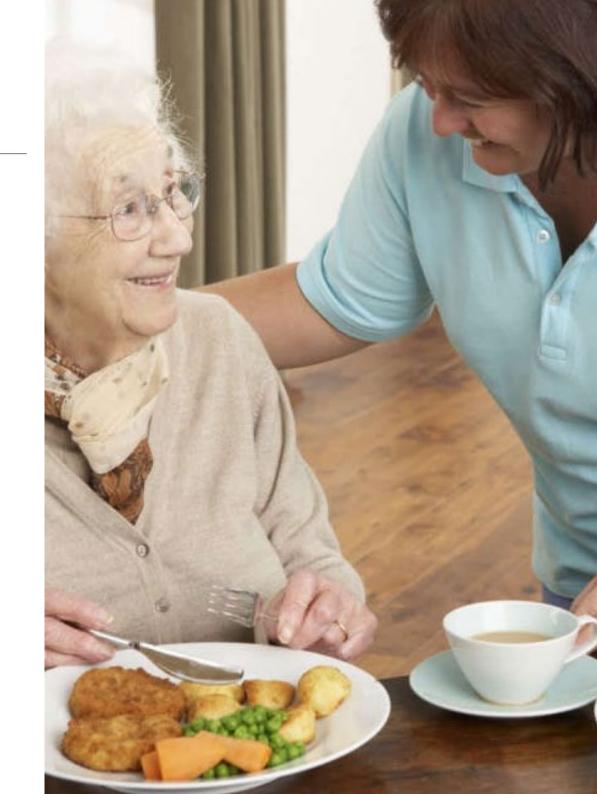


### **General Objectives**

- Broaden knowledge and incorporate advanced and innovative knowledge in food and nutrition in the daily clinical practice of the Dietitian-Nutritionist
- 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



You will influence the planning of objectives and consultations through the psychological aspects of the patient"





### **Specific Objectives**

#### Module 1. Nutrition in Renal, Hepatic and Pancreatic Diseases

- Update knowledge of renal, hepatic and pancreatic functions and pathologies, and their relationship with nutrition
- Assess clinical cases, application tools in nutrition consultation
- Plan nutritional treatments based on scientific evidence and assessment of evolution

#### Module 2. Nutrition in Nervous System Pathologies

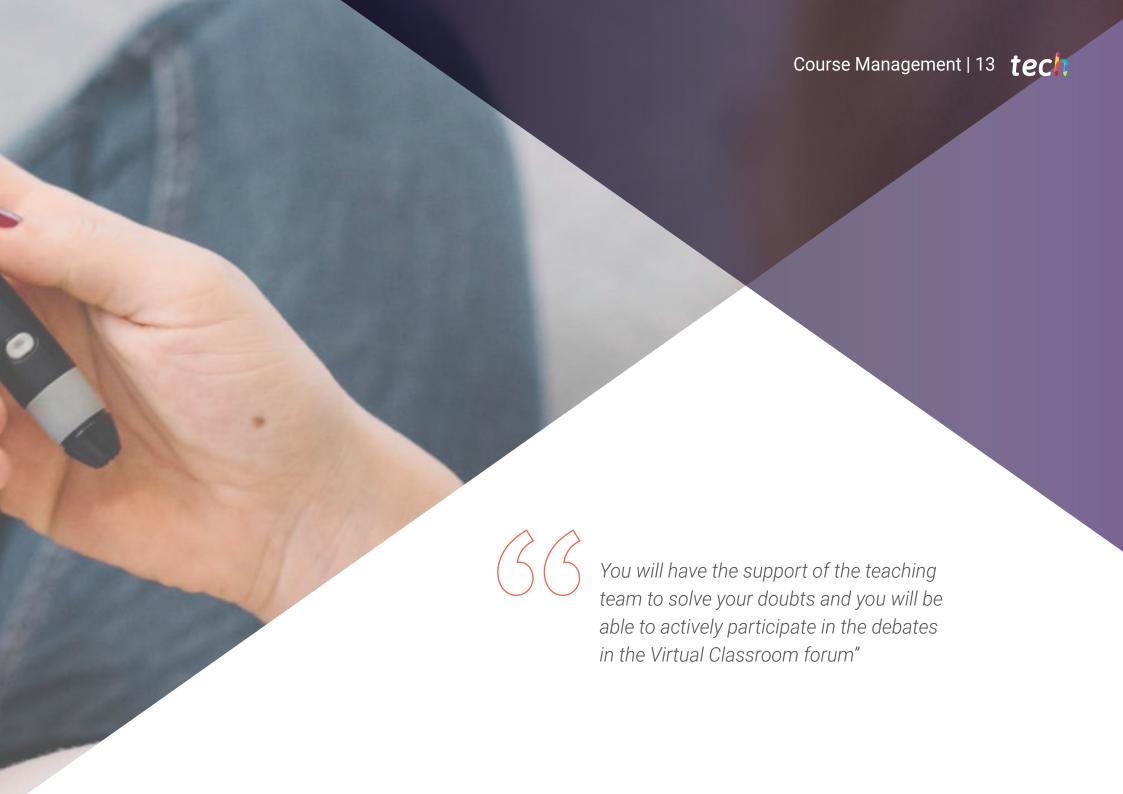
- Update on the scientific evidence of the relationship between nervous system pathologies and nutrition
- Assess the patient's needs and difficulties, in addition to an adequate assessment
  of the nutritional status
- Learn the main psychological aspects of patients with alterations of behavioral disorders

#### Module 3. Oncology Patient Nutrition

- Know how this pathology affects the nutritional level, from the organic, psychological and metabolic point of view
- Identify malnutrition in the context of a neoplastic disease as the only pathology or in the pluripathological patient, as well as to prevent them
- Personalize the nutritional treatment, covering the needs of the patient in antineoplastic treatment, and/or surgeries







### tech 14 | Course Management

#### Management



#### Dr. Vázquez Martínez, Clotilde

- Corporate Head of the Endocrinology and Nutrition Departments, Jiménez Díaz La Foundation
- Corporate Head of the Department of Endocrinology and Nutrition of the Jiménez Díaz Foundation and Quirón Salud Group
- Head of the Endocrinology and Nutrition Department at Ramón y Cajal Hospital (Madrid) and Severo Ochoa Hospital, Leganés
- President of La SENDIMAD (Society of Endocrinology, Nutrition, and Diabetes of the Community of Madrid)
- Coordinator Therapeutic Education Group Group of the Spanish Society of Diabetes
- Doctorate from the Faculty of Medicine at the Autonomous University of Madrid
- Degree in Medicine and Surgery from the Faculty of Medicine of the University of Valencia
- Specialist in Endocrinology and Nutrition via Medical Residency at the Jimenez Díaz Foundation
- 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. Sánchez Jiménez, Álvaro

- Specialist in Nutrition and Endocrinology at Jiménez Díaz Foundation HU
- 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 on the Master's Degree in in Obesity and its Comorbidities. Rey Juan Carlos University
- Professor at the Course of Excellence in Obesity at the Fundación Jimenez Díaz Hospital Novo Nordisk
- 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. Montoya Álvarez, Teresa

- Head of the Endocrinology and Nutrition Service of the Infanta Elena University Hospital
- Attending Physician in the Endocrinology and Nutrition Department at the Ramón y Cajal Hospital
- Head of Volunteering at the Garrigou Foundation
- Degree in Medicine and Surgery from the University of 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, Trisomy 21 Research Society

#### **Professors**

#### Mr. Martínez Martínez, Alberto

- Nutritional Advisor at Santiveri
- 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. González Toledo, Beatriz María

- Nurse expert in Hemodialysis and Nutrition and Health
- Nephrology Nurse Unit of the Fundación Jiménez Díaz Hospital
- Nurse Director of Dialysis at the Íñigo Álvarez de Toledo Renal Foundation
- Master's Degree in Hemodialysis for Nurses at the Complutense University of Madrid
- Master's Degree in Nutrition and Health at the Open University of Catalonia
- Postgraduate Diploma in Peritoneal Dialysis for Nurses at Cardenal Herrera University
- Graduate in Nursing from the Autonomous University of Madrid

#### Dr. Prieto Moreno, Ana

- Nutritionist in the Department of Endocrinology and Nutrition at Jiménez Foundation Hospital
- Nutritionist at Hospital General de Villalba and HospitalUniversitario Infanta Elena
- Nutritionist at the Consejo Superior de Deportes, WWF, Medicadiet and Sanitas Sociedad Anónima de Seguros
- Nutritionist at Hospital Universitario La Paz, Mapfre Foundation, Copernal Publishing and 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

#### Ms. Yela Salguero, Clara

- Dietitian Coordination of Clinical Trials
- Dietician at the Fundación Jiménez Díaz Hospital
- Clinical Trials Coordinator at the Ramón y Cajal Hospital
- Dietitian at the Severo Ochoa Hospital, in Leganés
- Dietitian in the Integral Obesity Treatment Unit at the San José Hospital in Madrid
- Postgraduate Certificate in Human Nutrition and Dietetics at Alfonso X El Sabio University
- Degree in Food Science and Technology at the Complutense University of Madrid

#### Dr. Sanz Martínez, Enrique

- Clinical Nutritionist at the University Hospital General de Villalba and Rey Juan Carlos University Hospital
- Dietitian in the project PLUS researcher in the Health Research Institute of the
   Jiménez Diaz Foundation
- Researcher and collaborator in the NUTRICOVID study
- Researcher and collaborator in the cross-sectional prospective OBESTIGMA study
- Graduate in Human Nutrition and Dietetics at the Complutense University of Madrid
- Master's Degree in Clinical Nutrition at the Catholic University of San Antonio in Murcia
- Master in Obesity and its Comorbidities: Prevention, Diagnosis and Integral Treatment at the University Rey Juan Carlos

#### 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

### tech 18 | Course Management

#### Dr. López Escudero, Leticia

- Dietician and Clinical Nutritionist at the University Hospital Infanta Elena
- Dietitian and Clinical Nutritionist at the Foundation Jiménez Díaz and General de Villalba Hospitals
- Dietitian and Nutritionist in private practice and Diet Clinic
- Collaborator of the Scientific Department of the Spanish Association of Lung Cancer Patients
- Sports Nutritionist for the men's and women's first team of Las Rozas CF
- 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 at the Universidad Oberta de Cataluña

#### Dr. Modroño Móstoles, Naiara

- Specialist in Endocrinology
- Doctor Specialist in Pediatric Endocrinology and Nutrition at the Foundation Jimenez Diaz Hospital
- Doctor Specialist in Endocrinology the Infanta Elena University Hospital
- Doctor Specialty in Endocrinology at the University Hospital of Getafe
- Author of various articles published in scientific journals
- Postgraduate Certificate in Treatment of Diabetes Mellitus Type 2 at the Autonomous University of Barcelona





### Course Management | 19 tech

#### Dr. Labeira Candel, Paula

- Clinical nutritionist in the Bariatric Endoscopy Unit at HM Hospitales
- Sports and clinical nutritionist at Quirón Salud Instituto de Sobrepeso y Obesidad
- Nutritionist Sports and Clinical at Medicadiet, Slimming & Nutrition
- Sports nutritionist at C.F. 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. Manso del Real, Paula

- Deputy Director of Nursing at the Íñigo Álvarez de Toledo Renal Foundation
- Nursing Supervisor of the Dialysis Unit of the Íñigo Álvarez de Toledo Renal Foundation
- Nephrology Nurse at the Nephrology Unit of the Fundación Jiménez Díaz University Hospital
- Diploma in Nursing at the Francisco de Vitoria University
- Degree in International Cooperation and Health Promotion at the Francisco de Vitoria University
- Degree in International Cooperation and Health Promotion at the Francisco de Vitoria University
- Master's Degree in Hemodialysis for Nurses at the Complutense University of Madrid





### tech 22 | Structure and Content

#### Module 1. Nutrition in Renal, Hepatic and Pancreatic Diseases

- 1.1. Nutrients
  - 1.1.1. Enzymatic Activity, Metabolism, Filtration and Diuresis
- 1.2. Habits, Risks, Previous and Causative Comorbidities, and Assessment of Feeding Habits
- 1.3. Nutrition in CKD: Predialysis
- 1.4. Nutrition in CKD: Dialysis: Renal Transplantation
- 1.5. Diabetic Nephropathy
- 1.6. Renal Lithiasis
- 1.7. Pancreatic Insufficiency
- 1.8. Non-Alcoholic Hepatic Steatosis, Fibrosis, Hepatic Cirrhosis and Vesicular Lithiasis
- 1.9. Modulation of the Intestinal Microbiota in Renal, Pancreatic and Hepatic Pathology
- 1.10. Psychological Aspects and Planning of Objectives and Consultations

#### Module 2. Nutrition in Nervous System Pathologies

- 2.1. Nutrition in the Prevention of Cognitive Impairment, Dementia and Alzheimer's Disease
- 2.2. Nutrition and Psychoaffective Pathologies
  - 2.2.1. Depression
  - 2.2.2. Bipolar Disorder
- 2.3. Pathologies with Altered Eating Behavior
  - 2.3.1. Schizophrenia
  - 2.3.2. Borderline Personality Disorder
- 2.4. Eating Disorders
  - 2.4.1. Anorexia
  - 2.4.2. Bulimia
  - 2.4.3. BED
- 2.5. Nutrition in Degenerative Pathologies
  - 2.5.1. Multiple Sclerosis
  - 2.5.2. Amyotrophic Lateral Sclerosis
  - 2.5.3. Muscular Dystrophies

- 2.6. Nutrition in Pathologies with Uncontrolled Movement
  - 2.6.1. Parkinson's Disease
  - 2.6.2. Huntington's Disease
- 2.7. Nutrition in Epilepsy
- 2.8. Nutrition in Neuralgias
  - 2.8.1. Chronic Pain
- 2.9. Nutrition in Severe Neurological Injuries
- 2.10. Toxics, Bioactive Compounds, Intestinal Microbiota and their Relationship to Nervous System Diseases

#### Module 3. Oncology Patient Nutrition

- 3.1. Pathophysiology of Cancer
- 3.2. Relationship of Cancer with Eating Habits and Potential Carcinogens
- 3.3. Assessment of Nutritional Status in the Oncologic Patient
- 3.4. Nutrient-Antineoplastic Treatment Interaction
  - 3.4.1. Specific Changes in the Most Frequently Used Antineoplastic Agents
- 8.5. Psychological Aspects in the Patient and General Nutritional Recommendations in the Oncology Patient
- 3.6. Nutrition in the Appetite and Swallowing Alterations Caused by the Pathology or Treatments
  - 3.6.1. Anorexia
  - 3.6.2. Dysgeusia
  - 3.6.3. Dysphagia
  - 3.6.4. Mucositis
  - 3.6.5. Xerostomia
- 3.7. Nutrition in Digestive Disorders Caused by Pathology or Treatments
  - 3.7.1. Malabsorption
  - 3.7.2. Diarrhea
  - 3.7.3. Dysbiosis
  - 3.7.4. Constipation

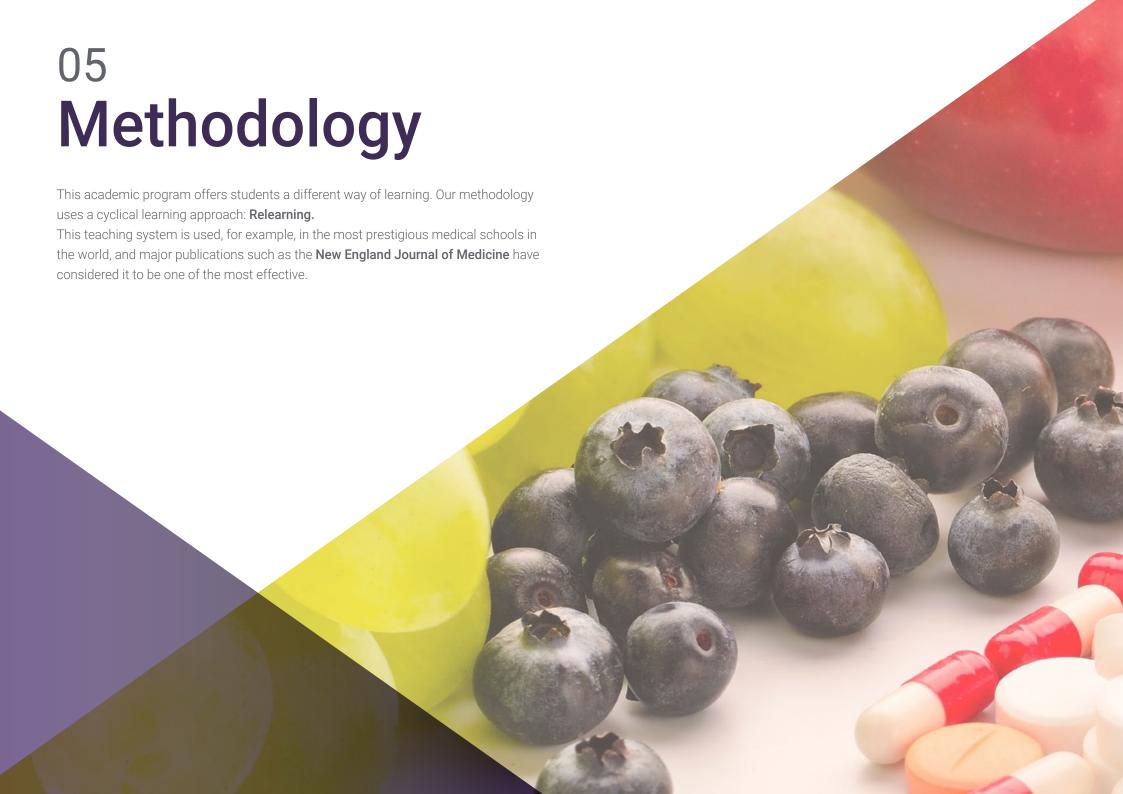


### Structure and Content | 23 tech

- Nutrition in Metabolic Alterations Caused by the Pathology: Cachexia
- Nutrition Before and After Oncological Surgery
  - 3.9.1. Head and Neck
  - 3.9.2. Esophageal
  - 3.9.3. Gastric
  - Pancreaticobiliary 3.9.4.
  - 3.9.5. Small and Large Intestine
- 3.10. Hospital Nutrition
  - 3.10.1. Oral
  - 3.10.2. Enteral
  - 3.10.3. Parenteral



PC, Tablet or mobile. Access the Virtual Classroom from wherever you want, whenever you want, with no tight schedules or boring and tedious face-to-face classes"



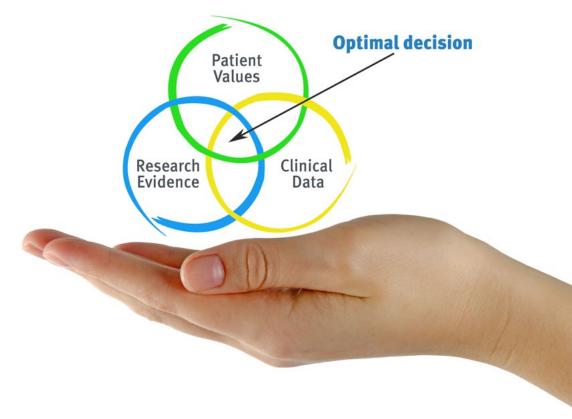


### tech 26 | Methodology

#### 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:

- 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.



### tech 28 | Methodology

#### 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.



### 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, 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 socioeconomic 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.

### tech 30 | Methodology

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**

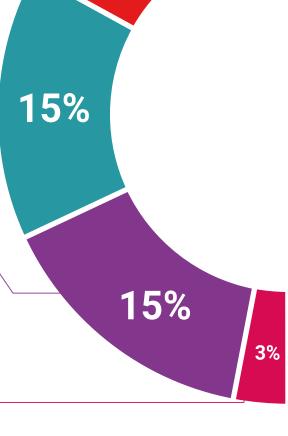
TECH brings students closer to the latest techniques, the latest educational advances and to the forefront of current nutritional counselling techniques and procedures. All of this in direct contact with students and explained in detail so as to aid their assimilation and understanding. And best of all, 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.



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



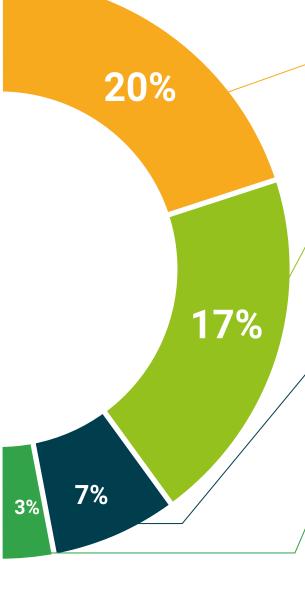
There is scientific evidence suggesting that observing third-party experts can be useful.

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.







### tech 34 | Certificate

This **Postgraduate Diploma in Nutrition in Special Populations in Diet Therapy** contains the most complete and up-to-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 Nutrition in Special Populations in Diet Therapy
Official N° of Hours: **450 h**.



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in the community community technological
university

## Postgraduate Diploma

Nutrition in Special Populations in Diet Therapy

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

