



Nutrition in the Overweight and Obese Population and their Comorbidities in Diet Therapy

» Modality: online

» Duration: 6 months

» Certificate: TECH Global University

» Credits: 18 ECTS

» Schedule: at your own pace

» Exams: online

Website: www.techtitute.com/us/pharmacy/postgraduate-diploma/postgraduate-diploma-nutrition-overweight-obese-population-comorbidities-diet-therapy

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06 Certificate

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### tech 06 | Introduction

Although issues related to overweight and obesity are usually more related to other areas, the fact is that the community pharmacy and its specialists play a vital role in the nutritional treatment of this pathology. Today, millions of pharmacists versed in this area dedicate their daily work to the development of diets and dietary strategies that help not only to treat these types of pathologies, but also to prevent their onset or possible complications.

For this reason, TECH has adapted this Postgraduate Diploma in Nutrition in Overweight, Obesity and their Comorbidities in Diet Therapy, so that these professionals have access to a degree that allows them to be updated on the latest scientific evidence and can update their practice according to the most effective and innovative nutritional recommendations. This is a program that begins by delving into nutrition, health and disease prevention through food, and continues by going deeper into the assessment of nutritional status and the calculation of adapted plans, their recommendations and the specifications for their correct follow-up. Finally, it places special emphasis on the characteristics of overweight, obesity, its comorbidities and its treatment through a diet adapted to each patient.

A way to catch up in a dynamic and 100% online way with which the pharmacist will not only see his knowledge updated and expanded in a very short time, but will also see his improvement in the improvement of his professional skills and competences. All this through a syllabus designed exclusively by experts in the sector, who, in addition, have selected hours of high quality additional material to deepen those aspects of each module that are most relevant to your career.

This Postgraduate Diploma in Nutrition in the Overweight and Obese Population and their Comorbidities 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 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 work
- Content that is accessible from any fixed or portable device with an Internet connection



You will delve into calorimetry and the impact on the personalized treatment of patients with obesity or overweight and the recommendations for each case"



You will be able to put your skills into practice through the study of common and complex real clinical cases, perfecting your strategies and improving your approach to your patients"

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.

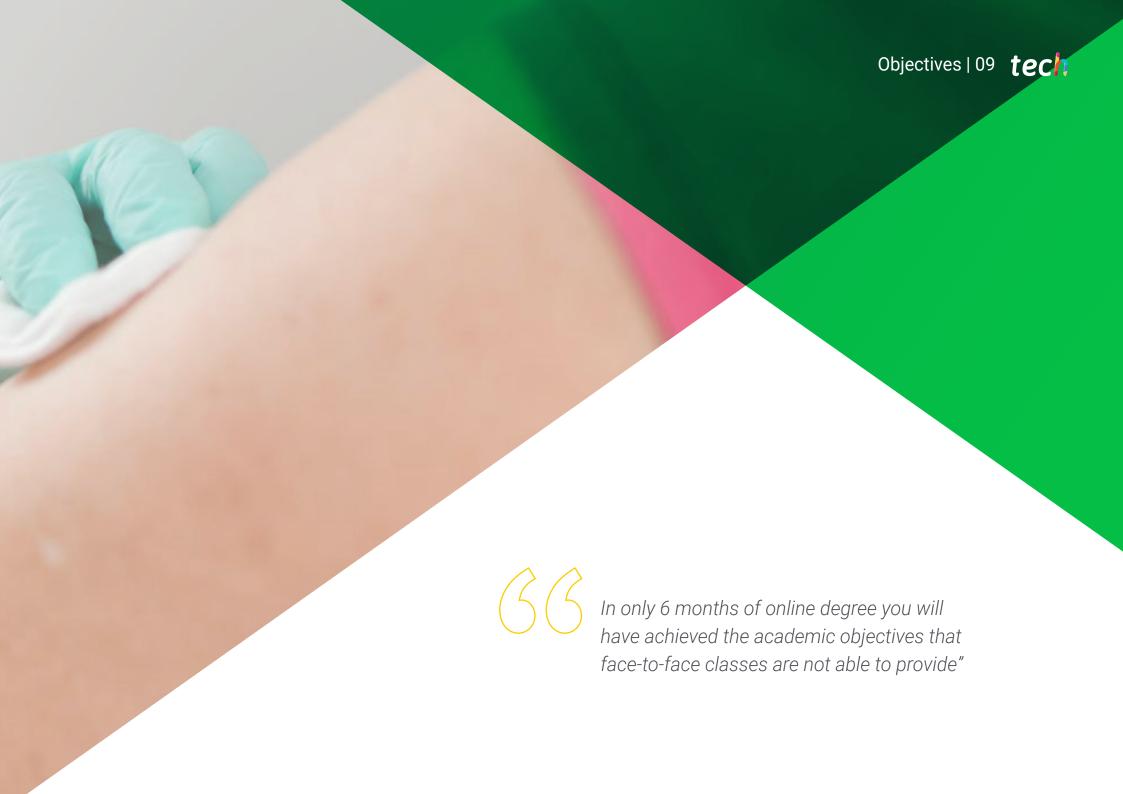
This program is designed around Problem-Based Learning, whereby the professional must try to solve the different professional practice situations that arise during the academic year This will be done with the help of an innovative system of interactive videos made by renowned experts.

You will be able to get up to date in everything related to pharmacological treatments in obesity and drug-nutrient interactions and adaptation to the nutritional plan.

You will have access to a catalog of nutritional recommendations according to age or condition, for example, for pregnant women, menopausal women, children or athletes.







### tech 10 | Objectives



### **General Objectives**

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



Take advantage of the opportunity and take the step to get up to date on the latest developments in Nutrition in the Overweight and Obese Population and their Comorbidities in Diet Therapy"







### Module 1. Nutrition, Health and Disease Prevention: Current Issues and Recommendations for the General Population

- Analyze patient's eating habits, as well as their problems and motivation
- Update nutritional recommendations based on scientific evidence for their application in clinical practice
- Prepare for the design of nutritional education strategies and patient care

## Module 2. Assessment of Nutritional Status and Calculation of Personalized Nutritional Plans, Recommendations and Monitoring

- Adequate La assessment of the clinical case: interpretation of causes and risks
- Personalized calculation of nutritional plans taking into account all individual variables
- Planning nutritional plans and models for a complete and practical recommendation

#### Module 3. Nutrition in Overweight, Obesity and their Comorbidities

- Adequate assessment of the clinical case, interpretation of causes of overweight and obesity, comorbidities and risks
- Calculate and individually prescribe the different models of hypocaloric diets
- Plan consultations and multidisciplinary team in obesity





### Management



### Dr. Vázquez Martínez, Clotilde

- Corporate Head of the Endocrinology and Nutrition Departments, Jiménez Díaz La Foundation
- 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. Montoya Álvarez, Teresa

- Head of the Endocrinology and Nutrition Service of the Infanta Elena University 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



### Dr. Sánchez Jiménez, Álvaro

- Specialist in Nutrition and Endocrinology at Jiménez Díaz Foundation University Hospital
- 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 Obesity and comorbidities, Rey Juan Carlos University
- Professor at the Course of Excellence in Obesity at the university 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

### tech 16 | Course Management

#### **Professors**

#### Dr. Fernández Menéndez, Amanda

- Doctor Specialist in Pediatric Endocrinology and Nutrition at the 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's Degree in Obesity and its Comorbidities: Prevention, Diagnosis and Integral Treatment at the University Rey Juan Carlos
- Expert in Clinical Bioethics from the Complutense University

#### 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, S.L.
- 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. Gutiérrez Pernia, Belén

- Nutritionist in Obesity at Medicadiet
- · López-Nava Obesity Nutritionist. Madrid
- Dietitian 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

#### 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. Alcarria Águila, María del Mar

- Nutritionist Clinical Symptoms at Medicadiet
- López-Nava Obesity Nutritionist
- Dietitian and Nutritionist at Predimed-Plus
- Grade in Human Nutrition and Dietetics from the Complutense University of Madrid
- Master in Rehabilitation Nutrition and Endocrinology at the Institute of Nutrition and Health Sciences.(ICNS)



### Course Management | 17 tech

### Dr. Miguélez González, María

- Attending Physician of Endocrinology and Nutrition at the 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

#### Ms. 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

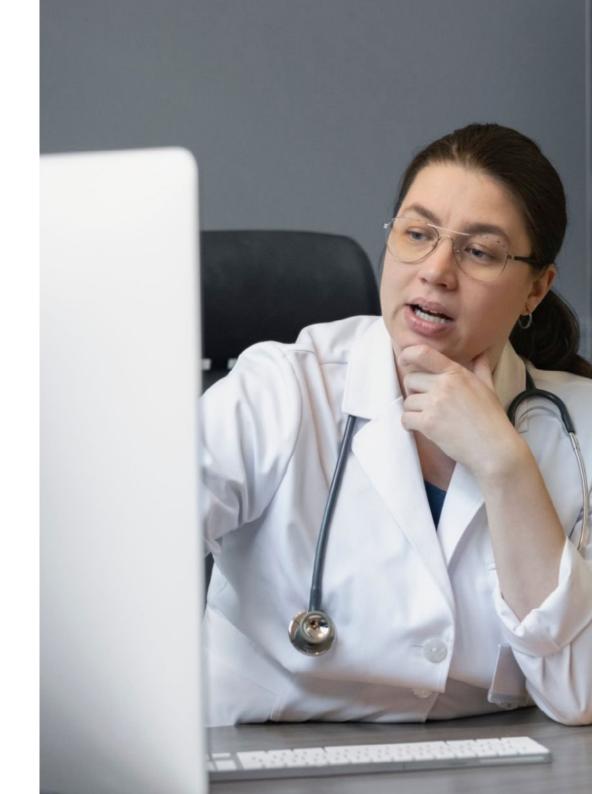
### tech 18 | Course Management

### 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. 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





Take the opportunity to learn about the latest advances in this field in order to apply it to your daily practice"







### tech 20 | Structure and Content

## **Module 1.** Nutrition, Health and Disease Prevention: Current Issues and Recommendations for the General Population

- 1.1. Feeding Habits in the Current Population and Health Risks
- 1.2. Mediterranean and Sustainable Diet
  - 1.2.1. Recommended Dietary Pattern
- 1.3. Comparison of Dietary Patterns or "Diets"
- 1.4. Nutrition in Vegetarians
- 1.5. Childhood and Adolescence
  - 1.5.1. Nutrition, Growth and Development
- 1.6. Adults
  - 1.6.1. Nutrition for the Improvement of Quality of Life
  - 1.6.2. Prevention
  - 1.6.3. Treatment of disease
- 1.7. Pregnancy and Lactation Recommendations
- 1.8. Recommendations in Menopause
- 1.9. Advanced Age
  - 1.9.1. Nutrition in Aging
  - 1.9.2. Changes in Body Composition
  - 1.9.3. Abnormalities
  - 1.9.4. Malnutrition
- 1.10. Nutrition in Athletes





### Structure and Content | 21 tech

## **Module 2.** Assessment of Nutritional Status and Calculation of Personalized Nutritional Plans, Recommendations and Monitoring

- 2.1. Medical History and Background
  - 2.1.1. Individual Variables Affecting Nutritional Plan Response
- 2.2. Anthropometry and Body Composition
- 2.3. Assessment of Eating Habits
  - 2.3.1. Nutritional Assessment of Food Consumption
- 2.4. Interdisciplinary Team and Therapeutic Circuits
- 2.5. Calculation of Energy Intake
- 2.6. Calculation of Recommended Macro- and Micronutrient Intakes
- 2.7. Quantity and Frequency of Food Consumption Recommendations
  - 2.7.1. Dietary Patterns
  - 2.7.2. Planning
  - 2.7.3. Distribution of Daily Feedings
- 2.8. Diet Planning Models
  - 2.8.1. Weekly Menus
  - 2.8.2. Daily Intake
  - 2.8.3. Methodology by Food Exchanges
- 2.9. Hospital Nutrition
  - 2.9.1. Dietary Models
  - 2.9.2. Decision Algorithms
- 2.10. Educational
  - 2.10.1. Psychological Aspects
  - 2.10.2. Maintenance of Feeding Habits
  - 2.10.3. Discharge Recommendations

### tech 22 | Structure and Content

### Module 3. Nutrition in Overweight, Obesity and their Comorbidities

- 3.1. Pathophysiology of Obesity
  - 3.1.1. Precision Diagnosis
  - 3.1.2. Analysis of Underlying Causes
- 3.2. Phenotypic Diagnosis
  - 3.2.1. Body Composition and Calorimetry and Impact on Personalized Treatment
- 3.3. Treatment Target and Hypocaloric Diet Models
- 3.4. Prescription of Physical Exercise in Overweight and Obesity
- 3.5. Psychology Associated with Slimming Nutrition: Psychonutrition
- 3.6. Comorbidities Associated with Obesity
  - 3.6.1. Nutritional Management in Metabolic Syndrome
  - 3.6.2. Insulin Resistance
  - 3.6.3. Type 2 Diabetes and Diabesity
- 3.7. Cardiovascular Risk and Nutritional Adaptations in Hypertension, Dyslipidemias and Atherosclerosis
- 3.8. Digestive Pathologies Associated with Obesity and Dysbiosis
- 3.9. Pharmacological Treatment in Obesity and Drug-Nutrient Interactions and Adaptation of the Nutritional Plan
- 3.10. Bariatric and Endoscopic Surgery
  - 3.10.1. Nutritional Adaptations









You are only 450 hours away from becoming a Postgraduate Diploma in Nutrition in Overweight, Obesity and its Comorbidities in Diet Therapy. Shall we start it?"

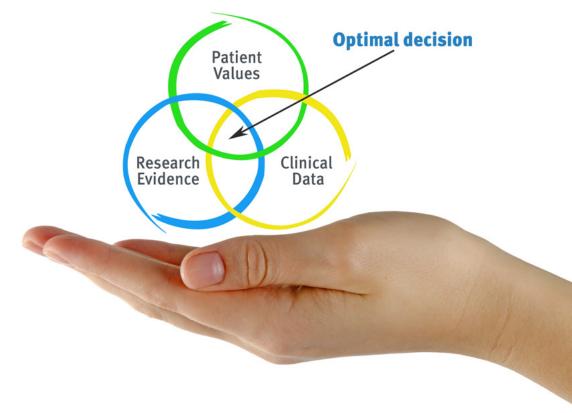


### tech 28 | Methodology

#### At TECH we use the Case Method

What should a professional do in a given situation? Throughout the program, students will be confronted with multiple simulated clinical cases based on real patients, in which they will have to investigate, establish hypotheses and ultimately, resolve the situation. There is an abundance of scientific evidence on the effectiveness of the method. Pharmacists learn better, more quickly 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, attempting to recreate the actual conditions in a pharmacist's professional 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. Pharmacists who follow this method not only grasp concepts, but also develop their mental capacity, by evaluating real situations and applying their 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.



### Relearning Methodology

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

Our 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, which represent a real revolution with respect to simply studying and analyzing cases.

Pharmacists 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 | 31 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 115,000 pharmacists have been trained with unprecedented success in all clinical specialties, regardless of the surgical load. This pedagogical methodology is developed in a highly demanding environment, with a university student body with a high 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 specialization, developing a critical mindset, defending arguments, and contrasting opinions: a direct equation to 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 32 | Methodology

This program offers the best educational material, prepared with professionals in mind:



#### **Study Material**

All teaching material is created specifically for the course by specialist pharmacists who will be teaching the course, so that the didactic development is highly specific and accurate.

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.



#### **Video Techniques and Procedures**

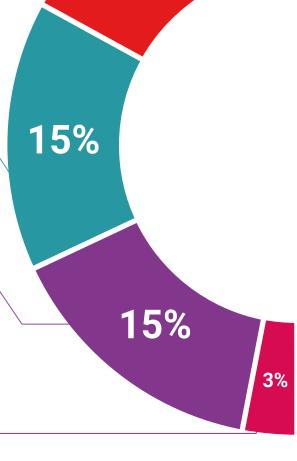
TECH introduces students to the latest techniques, to the latest educational advances, to the forefront of current pharmaceutical care procedures. All of this, first hand, and explained and detailed with precision to contribute to assimilation and a better understanding. And best of all, you can watch 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.

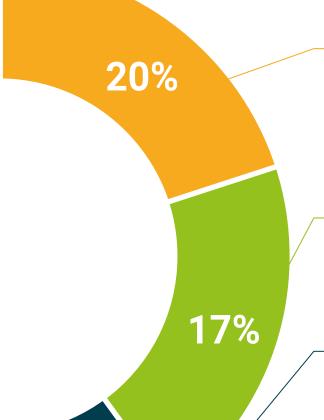
This unique multimedia content presentation training system was awarded by Microsoft as a "European Success Story".





#### **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.



7%

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

Effective learning ought to be contextual. Therefore, we will present you with real case developments in which the expert will guide you through 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.







### tech 36 | Certificate

This private qualification will allow you to obtain a **Postgraduate Diploma in Nutrition in Overweight, Obesity and their Comorbidities in Diet Therapy** endorsed by **TECH Global University**, the world's largest online university.

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

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

Title: Postgraduate Diploma in Nutrition in Overweight, Obesity and their Comorbidities in Diet Therapy

Modality: online

Duration: 6 months

Accreditation: 18 ECTS



Mr./Ms. \_\_\_\_\_, with identification document \_\_\_\_\_ has successfully passed and obtained the title of:

### Postgraduate Diploma in Nutrition in Overweight, Obesity and their Comorbidities in Diet Therapy

This is a private qualification of 540 hours of duration equivalent to 18 ECTS, with a start date of dd/mm/yyyy and an end date of dd/mm/yyyy.

TECH Global University is a university officially recognized by the Government of Andorra on the 31st of January of 2024, which belongs to the European Higher Education Area (EHEA).

In Andorra la Vella, on the 28th of February of 2024



<sup>\*</sup>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.

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### Postgraduate Diploma

Nutrition in the Overweight and Obese Population and their Comorbidities in Diet Therapy

- » Modality: online
- » Duration: 6 months
- » Certificate: TECH Global University
- » Credits: 18 ECTS
- » Schedule: at your own pace
- » Exams: online

