

# Postgraduate Certificate

## Nutrition in Endocrine-Metabolic Diseases for Nursing





## Postgraduate Certificate

### Nutrition in Endocrine -Metabolic Diseases for Nursing

- » Modality: online
- » Duration: 6 weeks
- » Certificate: TECH Global University
- » Credits: 5 ECTS
- » Schedule: at your own pace
- » Exams: online

Website: [www.techtute.com/us/nursing/postgraduate-certificate/nutrition-endocrine-metabolic-diseases-nursing](http://www.techtute.com/us/nursing/postgraduate-certificate/nutrition-endocrine-metabolic-diseases-nursing)

# Index

01

Introduction

---

*p. 4*

02

Objectives

---

*p. 8*

03

Course Management

---

*p. 12*

04

Structure and Content

---

*p. 16*

05

Methodology

---

*p. 20*

06

Certificate

---

*p. 28*

# 01

# Introduction

Nutrition is a fundamental tool in the management of endocrine-metabolic diseases such as diabetes, obesity and metabolic syndrome. It is important that nurses are trained in this area, as they have a crucial role in the education and follow-up of patients with these pathologies. They are also the health professionals who are in direct and constant contact with patients, so they have the opportunity to provide valuable information on the importance of good nutrition and healthy habits. To carry out all these procedures, they need to be updated, which has led TECH to create the following 100% online qualification with the aim of providing updated and recent information on the sector.





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*Expand your knowledge through this  
Postgraduate Certificate in a practical  
way and adapted to your needs”*

The importance of nutrition in endocrine-metabolic diseases is becoming increasingly relevant in patients' health care. The prevalence of these diseases has increased worldwide and is expected to continue to increase. Nurses must be prepared to provide comprehensive care, including dietary factors.

For this reason, this Postgraduate Certificate is a response to the professionals need for training in a booming and constantly changing sector. The program is designed to provide nurses with the skills and knowledge necessary to provide comprehensive nutritional care to patients with endocrine-metabolic diseases.

Throughout the following weeks they will be trained to identify the nutritional needs of patients, design individualized meal plans and monitor patient adherence to the meal plan. All this through a high-impact informative conglomerate, nourished with audiovisual resources, complementary readings and practical exercises.

Additionally, it has a 100% online format, easily accessible from any device with Internet connection, so it will not be necessary to go to on-site centers or meet schedules, since it is at the pace and time of preference of the professional. Finally, it has the Relearning methodology, based on repetition and experience, assuming real cases and simulation for a better use.

This **Postgraduate Certificate in Nutrition in Endocrine-Metabolic Diseases for Nursing** contains the most complete and up-to-date scientific program on the market.

The most important features include:

- ◆ Clinical cases presented by experts in 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
- ◆ New Diagnostic-Therapeutic Novelties on Nutrition Performance in Endocrine-Metabolic Diseases for Nursing Interactive learning system based on algorithms for decision making on clinical situations raised
- ◆ Special emphasis on test-based medicine and research methodologies in Clinical Nutrition
- ◆ 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



*Increase your competencies in the approach to Endocrine-Metabolic Diseases for Nursing through this Postgraduate Certificate”*



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*This Postgraduate Certificate may be the best investment you can make in the selection of a refresher program for two reasons: in addition to updating your knowledge in Nutrition in Endocrine-Metabolic Diseases for Nursing, you will obtain a university certificate from the first educational institution in Spain, TECH”*

*This Postgraduate Certificate allows training in simulated environments, which provide immersive learning programmed to train for real situations.*

*It includes clinical cases to bring the development of the program as close as possible to the reality of nursing care.*

The program's teaching staff includes professionals from the sector who bring to this training the experience of their work, in addition to recognized specialists from prestigious reference societies and universities.

The multimedia content, developed with the latest educational technology, will provide professionals with situated and contextual learning, i.e., a simulated environment that will provide immersive training, designed for training oneself 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.



# 02 Objectives

The main objective of the program is the development of theoretical and practical learning, so that the nurse can master in a practical and rigorous Shape the Nutrition in Endocrine-Metabolic Diseases.







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*This refresher program will generate a sense of security when practicing nursing, which will help you grow both personally and professionally”*



## General Objectives

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- Update the nursing professionals knowledge on new trends in human nutrition, in both health and disease situations, through evidence based nursing
- Promote work strategies based on the practical knowledge of the new trends in nutrition and its application to child and adult pathologies, where nutrition plays a fundamental role in treatment
- Encourage the acquisition of technical skills and abilities, through a powerful audiovisual system, and the possibility of development through online simulation workshops and/or specific training
- Encourage professional stimulation through continuing education and research
- Prepare the professional for research into patients with nutritional problems



*Take the opportunity and take the step to get up to date on the latest developments in Nutrition in Endocrine-Metabolic Diseases for Nurses”*





## Specific Objectives

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- ◆ Know the dietary treatment for biliary and pancreatic pathologies
- ◆ Explain the different techniques and products of basic and advanced nutritional support related to the nutrition of the patient
- ◆ Identify patients with nutritional risk or established malnutrition susceptible to specific support
- ◆ Incorporate the nutritional treatment of the most prevalent deficiency diseases in adults
- ◆ Identify and assess obesity and know its dietary or surgical treatment
- ◆ Manage the type II diabetic diet and other lifestyle factors
- ◆ Get up-to-date on the dietary management of dyslipidemias
- ◆ Study the DASH diet as a treatment for cardiovascular disease
- ◆ Identify dietary factors involved in hyperuricemia
- ◆ Distinguish dietary management of patients with debilitating neuromuscular pathology and who have suffered cerebrovascular accidents
- ◆ Identify the nutritional support needs of patients with Parkinson's disease and Alzheimer's disease at each evolutionary stage
- ◆ Manage the diet of critically ill patients
- ◆ Provide nutritional support to different oncology patients
- ◆ Update knowledge in the light of the current evolution of HIV patients on the nutritional support of the disease
- ◆ Identify dietary and lifestyle factors involved in the genesis and treatment of osteoporosis



03

# Course Management

Our teaching team, experts in Clinical Nutrition, are well known in the profession and are professionals with years of teaching experience who have come together to help you boost your career. To this end, they have developed this Postgraduate Certificate with recent innovations in the subject that will allow you to train and improve your skills in this sector





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*Learn from the best professionals and become  
a successful professional yourself”*



## 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
- ◆ Pharmacy Assistant. Pharmacy Chain. British Health and Beauty Retailers Boots UK. Oxford Street Centro de Londres
- ◆ Bachelor 's Degree in Food Science and Technology. University of Valencia
- ◆ Course Management Pharmacy Office



04

# Structure and Content

The structure of the contents has been designed by a team of professionals who recognize the implications of training in daily nursing praxis for trauma care, aware of the relevance of current training to treat patients with emergency pathologies and who are committed to quality teaching using new educational technologies.





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*This Postgraduate Certificate in Nutrition in Endocrine-Metabolic Diseases for Nursing contains the most complete and up-to-date scientific program on the market”*



## Module 1. Assessment of Nutritional Status and Diet. Practical Application

- 1.1. Bioenergy and Nutrition
  - 1.1.1. Energy Needs
  - 1.1.2. Methods of Assessing Energy Expenditure
- 1.2. Assessment of Nutritional Status
  - 1.2.1. Body Composition Analysis
  - 1.2.2. Clinical Diagnosis. Symptoms and Signs
  - 1.2.3. Biochemical, Hematological and Immunological Methods
- 1.3. Intake Assessment
  - 1.3.1. Methods for Analyzing Food and Nutrient Intake
  - 1.3.2. Direct and Indirect Methods
- 1.4. Update on Nutritional Requirements and Recommended Intakes
- 1.5. Nutrition in a Healthy Adult. Objectives and Guidelines. Mediterranean Diet
- 1.6. Nutrition in Menopause
- 1.7. Nutrition in the Elderly

## Module 2. Nutrition in Endocrine-Metabolic Diseases

- 2.1. Dyslipidemia and Arteriosclerosis
- 2.2. Diabetes Mellitus
- 2.3. Hypertension and Cardiovascular Disease
- 2.4. Obesity
  - 2.4.1. Etiology. Nutrigenetics and Nutrigenomics
  - 2.4.2. Pathophysiology of Obesity
  - 2.4.3. Diagnosis of the Disease and its Comorbidities
  - 2.4.4. Multidisciplinary Team in Obesity Treatment
  - 2.4.5. Dietary Treatment. Therapeutic Possibilities
  - 2.4.6. Pharmacological Treatment. New Drugs
  - 2.4.7. Psychological Treatment
    - 2.4.7.1. Intervention Models
    - 2.4.7.2. Treatment of Associated Eating Disorders





- 2.4.8. Surgical Treatments
  - 2.4.8.1. Indications
  - 2.4.8.2. Techniques
  - 2.4.8.3. Complications
  - 2.4.8.4. Dietary Management
  - 2.4.8.5. Metabolic Surgery
- 2.4.9. Endoscopic Treatments
  - 2.4.9.1. Indications
  - 2.4.9.2. Techniques
  - 2.4.9.3. Complications
  - 2.4.9.4. Patient Dietary Management
- 2.4.10. Physical Activity in Obesity
  - 2.4.10.1. Assessment of the Patient's Functional Capacity and Activity
  - 2.4.10.2. Activity-based Prevention Strategies
  - 2.4.10.3. Intervention in the Treatment of the Disease and Associated Pathologies
- 2.4.11. Update on Diet and Obesity Studies
- 2.4.12. National and International Intervention Strategies for Obesity Control and Prevention

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

05

# Methodology

This academic program offers students a different way of learning. Our methodology uses a cyclical learning approach: **Relearning**.

This teaching system is used, for example, in the most prestigious medical schools in the world, and major publications such as the **New England Journal of Medicine** have considered it to be one of the most effective.





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*Discover Relearning, a system that abandons conventional linear learning, to take you through cyclical teaching systems: a way of learning that has proven to be extremely effective, especially in subjects that require memorization"*

## At TECH Nursing School 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. Nurses learn better, faster, and more sustainably over time.

*With TECH, nurses can experience a learning methodology that is shaking the foundations of traditional universities around the world.*



According to Dr. Gervas, 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, in an attempt to recreate the real conditions in professional nursing practice.



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*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. Nurses 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 nursing professional to better integrate knowledge acquisition into the hospital setting or primary care.
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 case studies with a 100% online learning system based on repetition combining a minimum of 8 different elements in each lesson, which is a real revolution compared to the simple study and analysis of cases.



*The nurse will learn through real cases and by solving complex situations in simulated learning environments. These simulations are developed using state-of-the-art software to facilitate immersive learning.*

At the forefront of world teaching, the Relearning method has managed to improve the overall satisfaction levels of professionals who complete their studies, with respect to the quality indicators of the best online university (Columbia University).

With this methodology we have trained more than 175,000 nurses with unprecedented success in all specialities regardless of practical 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 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.



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.



### Nursing Techniques and Procedures on Video

We introduce you to the latest techniques, to the latest educational advances, to the forefront of current medical techniques. 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 exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



### Additional Reading

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





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

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



#### Testing & Retesting

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



#### Classes

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

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



#### Quick Action Guides

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





# 06 Certificate

The Postgraduate Certificate in Nutrition in Endocrine-Metabolic Diseases for Nursing guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate issued by TECH Global University.







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*Successfully complete this program and receive your university qualification without having to travel or fill out laborious paperwork”*

This program will allow you to obtain your **Postgraduate Certificate in Nutrition in Endocrine -Metabolic Diseases 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.

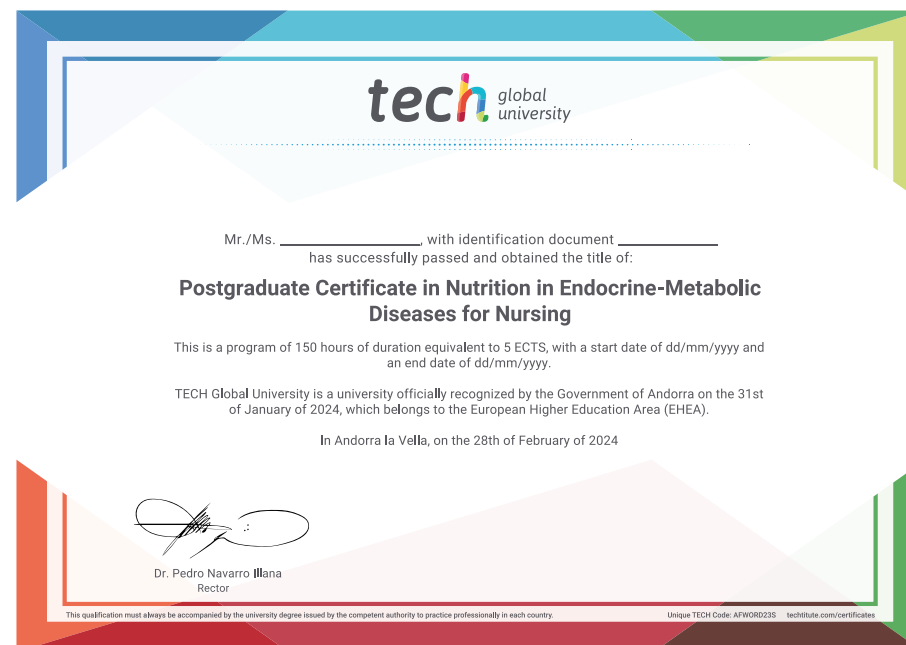
This **TECH Global University** title is a European program of continuing education and professional updating that guarantees the acquisition of competencies in its area of knowledge, providing a high curricular value to the student who completes the program.

Title: **Postgraduate Certificate in Nutrition in Endocrine-Metabolic Diseases for Nursing**

Modality: **online**

Duration: **6 weeks**

Accreditation: **5 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.

future  
health confidence people  
education information tutors  
guarantee accreditation teaching  
institutions technology learning  
community commitment  
personalized service innovation  
knowledge present  
online training  
development language  
classroom



## Postgraduate Certificate Nutrition in Endocrine -Metabolic Diseases for Nursing

- » Modality: online
- » Duration: 6 weeks
- » Certificate: TECH Global University
- » Credits: 5 ECTS
- » Schedule: at your own pace
- » Exams: online

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