

# Postgraduate Certificate Nutrition in Renal, Hepatic and Pancreatic Diseases





## Postgraduate Certificate Nutrition in Renal, Hepatic and Pancreatic Diseases

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

Website: [www.techtute.com/us/pharmacy/postgraduate-certificate/nutrition-renal-hepatic-pancreatic-diseases](http://www.techtute.com/us/pharmacy/postgraduate-certificate/nutrition-renal-hepatic-pancreatic-diseases)

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# 01

# Introduction

Nutrition becomes a key element in the recovery of people with chronic renal, hepatic and pancreatic diseases, since, in general, these are usually pathologies where an inadequate diet can cause deterioration and worsening of the person's health. The pharmacist who wishes to keep up to date with the latest developments in this field and the most innovative treatments currently used, has a 100% online teaching that can be accessed at any time of the day from a device with internet connection. All this, in addition to a teaching team specialized in the field of Nutrition and Endocrinology.



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*A university education to keep you up to date with the most advanced and innovative treatments applied to fibrosis patients"*

This Postgraduate Certificate in Nutrition in Renal, Hepatic and Pancreatic Diseases is especially oriented to pharmacists who wish to have an up-to-date and exhaustive knowledge in this field with a theoretical-practical approach, which will be useful in the daily care of this type of patients.

In this way, students attending the six weeks of this university program will take an in-depth look at the relevance of nutrition in patients suffering from chronic renal insufficiency, undergoing dialysis treatment or who have undergone transplants. It will also delve into the latest advances in pancreatic insufficiency, fibrosis and hepatic cirrhosis. A set of pathologies that are affected by the intestinal microbiota will have their specific space in this teaching.

The teaching methodology used by TECH will favor the renewal of knowledge in a simpler and more agile way. Therefore, students will be able to access all the content of the syllabus of this program from the first day, which will favor the distribution of the teaching load according to their needs. All of this is complemented by multimedia content and an extensive library of teaching resources. An excellent opportunity for professionals who desire to combine their work responsibilities with a high-level and advanced educational program.

This **Postgraduate Certificate in Nutrition in Renal, Hepatic and Pancreatic Diseases** 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



*A program that addresses nutritional adaptation in an up-to-date way in patients with previous comorbidities"*

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*A university program that you can access 24 hours a day, all week long. Ideal to combine with your professional and personal responsibilities”*

The program’s teaching staff includes professionals from the industry who contribute their work experience to this 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 students will be assisted by an innovative interactive video system created by renowned and experienced experts.

*This University Program allows you to renew your knowledge in nutritional treatments applied in diabetic nephropathy.*

*You will delve into the protective anti-proteinuria measure in pre-dialysis and in the prevention of renal comorbidities with a 100% online teaching.*



# 02 Objectives

This Postgraduate Certificate's main objective is that the pharmacist professional obtains an update of knowledge through the latest content in the field of nutrition, focusing on its direct application in the daily care that must be provided. Therefore, during the 150 teaching hours of this course, students will be able to learn about the tools applied in nutrition and the most modern planning used based on scientific evidence. All this, in with the Relearning the system which will allow you to develop in through in a natural way and reduce the long hours of study.



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*A 100% online program that brings you closer to the latest techniques applied to improve the quality of life of patients with renal diseases"*



## General Objectives

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- ◆ Allow graduates to be up to date in a comprehensive manner on everything related to nutritional planning for patients with hepatic, pancreatic and renal diseases
- ◆ Provide professionals with the most innovative and effective educational tools that will allow them to meet their own academic objectives in a simple, dynamic and highly beneficial way for their professional performance





## Specific Objectives

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- ◆ Update the 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

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*TECH main goal is for you to reach your own goals. For this reason, it will provide you with all the educational tools necessary to help you, not only to achieve them, but to overcome them”*

03

# Course Management

This University Program will be taught by a team of specialized professionals with extensive professional experience in the area of Nutrition and Endocrinology. Not only their trajectory has been the key for TECH to choose them, but also their current professional work and their proximity will be decisive for the students to reach a more direct knowledge of the reality in this area. Likewise, pharmacists will be able to consult any doubts they may have during the course of the course with the teaching team that is part of this degree.





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*For this postgraduate certificate, the teaching team has selected the most modern studies related to nutrition and pancreatitis”*

## Management



### 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 the Society of Endocrinology, Nutrition, and Diabetes of the Community of Madrid (SENDIMAD)
- ♦ Coordinator of the Therapeutic Education Group of the Spanish Society of Diabetes
- ♦ Physician of the Faculty of Medicine of 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 by the University Hospital 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 (FUCAMDÍ) Diabetes and Nutrition Lifetime Achievement Award



### **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 of the Master's Degree in Obesity and Comorbidities at the Rey Juan Carlos University
- ◆ Professor at the Course of Excellence in Obesity at the university Jimenez Díaz Foundation Hospital
- ◆ Graduate in Human Nutrition and Dietetics from the Complutense University of Madrid
- ◆ Nutrition and Food for the Elderly by the Complutense University of Madrid
- ◆ Nutrition and Sports for Professionals by the Fundación Tripartita
- ◆ Refresher Course on Practical Diabetes Type 1 and 2 for Health Professionals



### 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's Degree 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

### Dr. González Toledo, Beatriz María

- ◆ 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
- ◆ University Expert in Peritoneal Dialysis for Nursing at Cardenal Herrera University
- ◆ Graduate in Nursing from the Autonomous University of Madrid

### Dr. Modroño Móstoles, Naiara

- ◆ Physician specialized in Pediatric Endocrinology and Nutrition at the university Foundation Jimenez Diaz Hospital
- ◆ Physician specialized in Endocrinology the Infanta Elena University Hospital
- ◆ Physician specialized 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



**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 Díaz 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's Degree in Obesity and its Comorbidities: Prevention, Diagnosis and Integral Treatment at the University Rey Juan Carlos

**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 Jiménez Díaz Foundation 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 Nursing at the Complutense University of Madrid

# 04

# Structure and Content

Students who take this university program have a syllabus with the latest and most up-to-date information on renal, hepatic and pancreatic diseases from the point of view of nutrition and the treatments currently used. The Relearning system favors a renewal of knowledge in a more natural and progressive way, which in turn is favored by the multimedia content (video summaries, specialized readings and case studies) provided by the teaching team that imparts this program. In addition, all this will be available from the beginning of the University Program, so you will be able to access it as many times as you wish.





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*You will acquire an up-to-date and advanced knowledge in the field of nutrition in dialysis and renal transplant patients"*

## 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





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*A university qualification with a practical approach for you to address the latest developments in nutritional planning in patients with hepatic diseases"*

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.



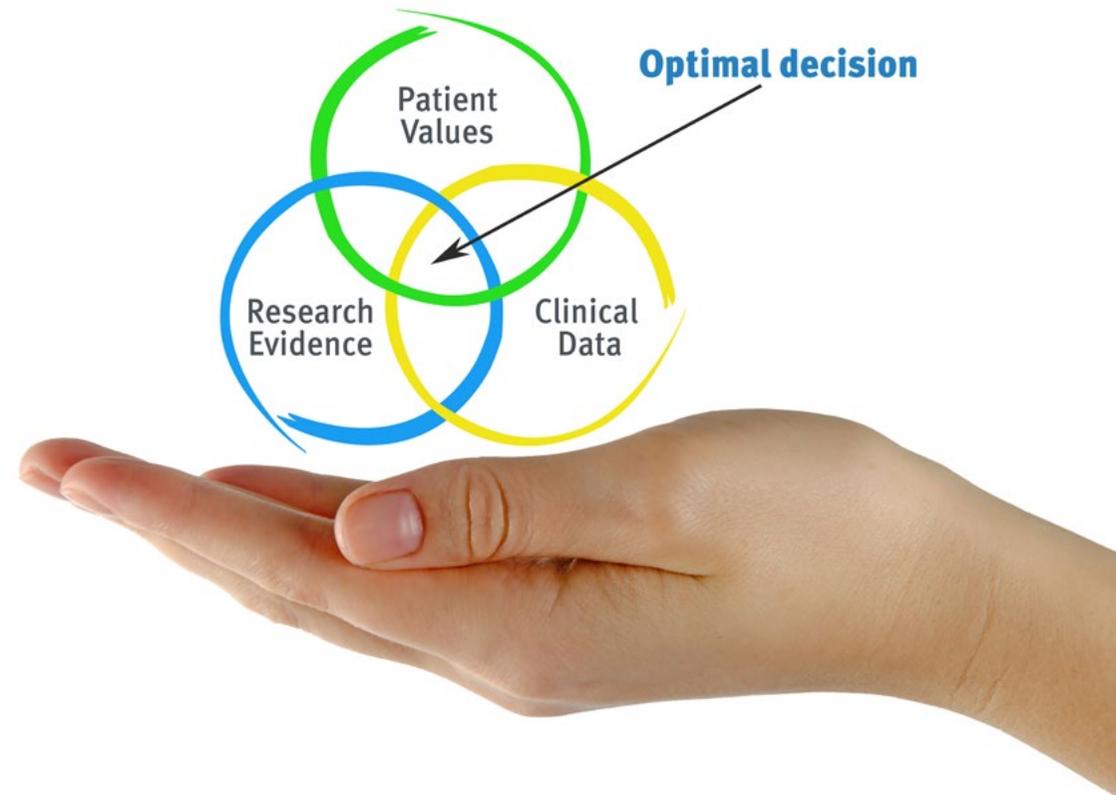


*Discover Relearning, a system that abandons conventional linear learning, to take you through cyclical teaching systems: a way of learning that has proven to be extremely effective, especially in subjects that require memorization"*

## At TECH 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. 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, attempting to recreate the actual conditions in a pharmacist's professional 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. 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.*



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.



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

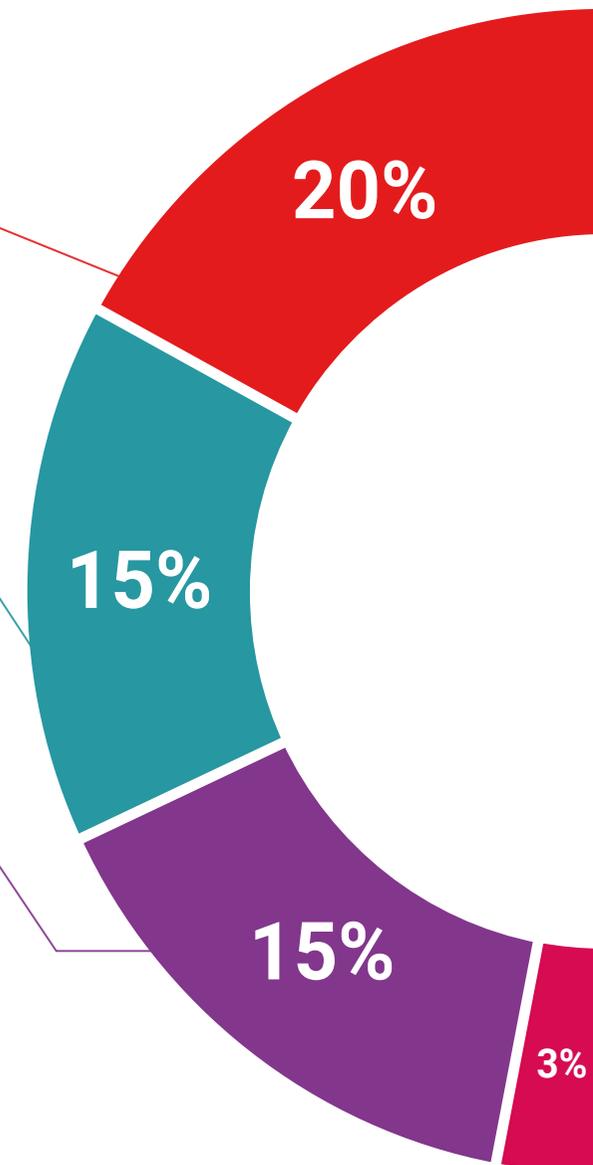
The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

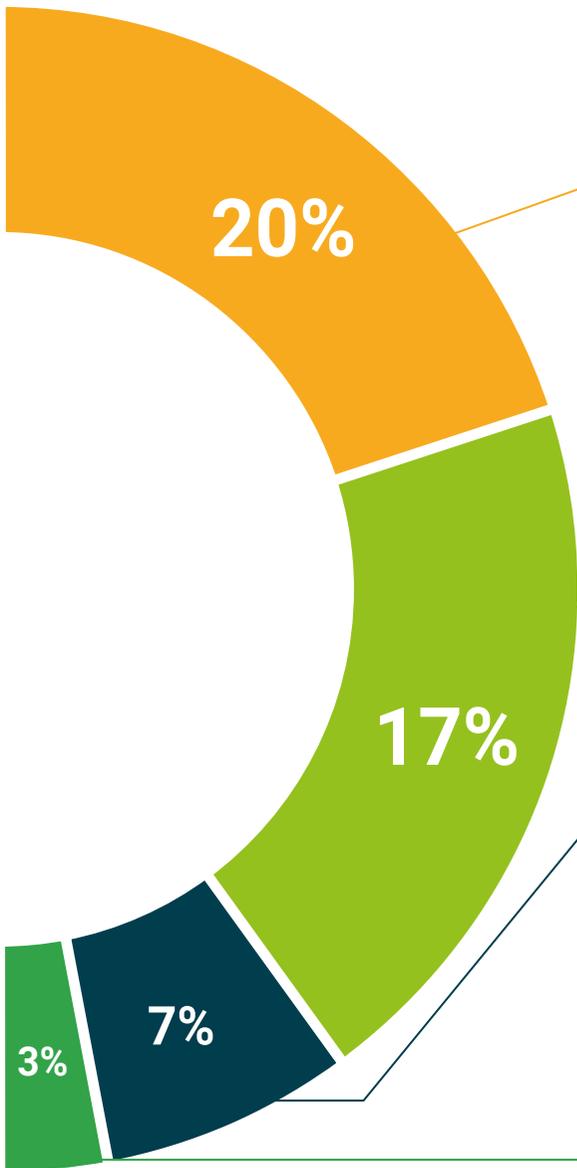
This unique multimedia content presentation training system was awarded by Microsoft as a "European Success Story".



### 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.





### 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.



06

# Certificate

The Postgraduate Certificate in Nutrition in Renal, Hepatic and Pancreatic Diseases guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate issued by TECH Technological University.



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

This **Postgraduate Certificate in Nutrition in Renal, Hepatic and Pancreatic Diseases** 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 Certificate** issued by **TECH Technological University** via tracked delivery\*.

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

Title: **Postgraduate Certificate in Nutrition in Renal, Hepatic and Pancreatic Diseases**

Official N° of Hours: **150 h.**



\*Apostille Convention. In the event that the student wishes to have their paper diploma issued with an apostille, TECH EDUCATION 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 languages  
virtual classroom



**Postgraduate Certificate**  
Nutrition in Renal, Hepatic  
and Pancreatic Diseases

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