

# Postgraduate Certificate

## Nutrition in Neurological Diseases and Other Special Situations





## Postgraduate Certificate Nutrition in Neurological Diseases and Other Special Situations

- » Modality: online
- » Duration: 6 weeks
- » Certificate: TECH Technological University
- » Schedule: at your own pace
- » Exams: online

Website: [www.techtute.com/in/medicine/postgraduate-certificate/nutrition-neurological-diseases-other-special-situations](http://www.techtute.com/in/medicine/postgraduate-certificate/nutrition-neurological-diseases-other-special-situations)

# Index

01

Introduction

---

*p. 4*

02

Objectives

---

*p. 8*

03

Course Management

---

*p. 12*

04

Structure and Content

---

*p. 18*

05

Methodology

---

*p. 22*

06

Certificate

---

*p. 30*

01

# Introduction

Learn about the dietary management of patients with disabling neuromuscular pathology and stroke, with this intensive program taught by practicing physicians with extensive experience in the field.

A unique opportunity to specialize in a sector with a high demand for professionals.



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*Improve your knowledge through this program, where you will find the best educational material supported by real clinical cases" Learn here about the latest advances in the specialty to be able to perform a quality medical practice"*

This program offers the student the possibility of deepening and updating knowledge, using the latest educational technology. It provides an overview of clinical nutrition while focusing on the most important and innovative aspects:

- ♦ Adult nutrition with an update on nutritional therapy in special or pathological situations
- ♦ Current trends in nutrition that emphasize the good use of the Mediterranean diet as a key tool for a healthy life

This program provides specialization in the field of Clinical Nutrition in areas of particular interest such as:

- ♦ Bio-energy
- ♦ The Mediterranean diet
- ♦ Inflammatory Bowel Disease
- ♦ Neurological Diseases

This Postgraduate Certificate is methodologically designed for distance learning in order to guarantee optimal supervision.

With this program, you will have the opportunity to take a teaching program that brings together the most advanced and in-depth knowledge in the field, where a group of professors of high scientific rigor and extensive international experience provides you with the most complete and updated information on the latest advances and techniques in Nutrition in Neurological Diseases and Other Special Situations.

This **Postgraduate Certificate in Nutrition in Neurological Diseases and Other Special Situations** 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 in Neurological Diseases and Other Special Situations
- ♦ 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.
- ♦ Latest diagnostic and therapeutic information on Nutrition in Neurological Diseases and Other Special Situations.
- ♦ An algorithm-based interactive learning system for decision-making in the clinical situations presented throughout the course.
- ♦ With a special emphasis on evidence-based medicine and research methodologies in Nutrition in Neurological Diseases and Other Special Situations
- ♦ 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



*Learn through the Postgraduate Certificate in Nutrition in Neurological Diseases and Other Special Situations"*

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*This Postgraduate Certificate is 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 Neurological Diseases and Other Special Situations you will obtain a qualification from TECH Technological University"*

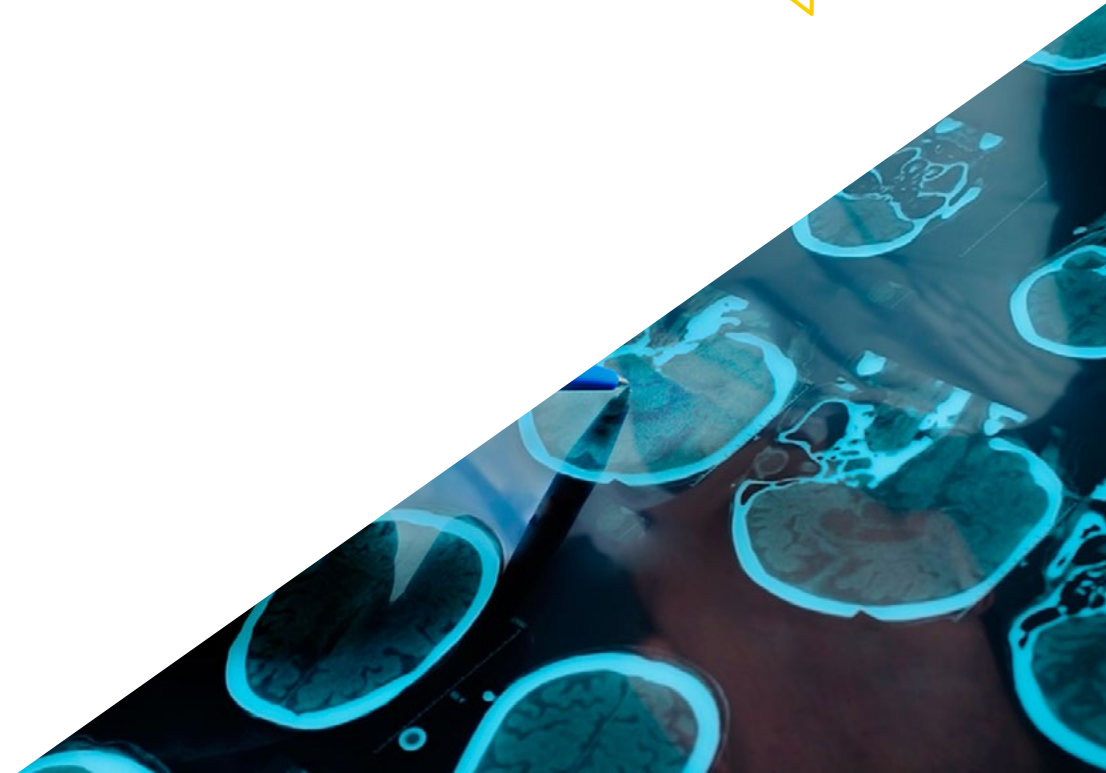
Its faculty includes health professionals belonging to the field of clinical nutrition, who contribute their work experience to this qualification, as well as renowned specialists belonging to leading scientific societies.

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 an immersive training program to train in real situations.

This program is designed around Problem-Based Learning, whereby the physician must try to solve the different professional practice situations that arise throughout the program. For this reason, you will be assisted by an innovative, interactive video system created by renowned and experienced experts in the field of radiology with extensive teaching experience.

*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 program as close as possible to the reality of care in medicine.*



# 02 Objectives

The main objective of the program is the development of theoretical and practical learning, so that the physician can master nutrition in neurological diseases in a practical and rigorous way.







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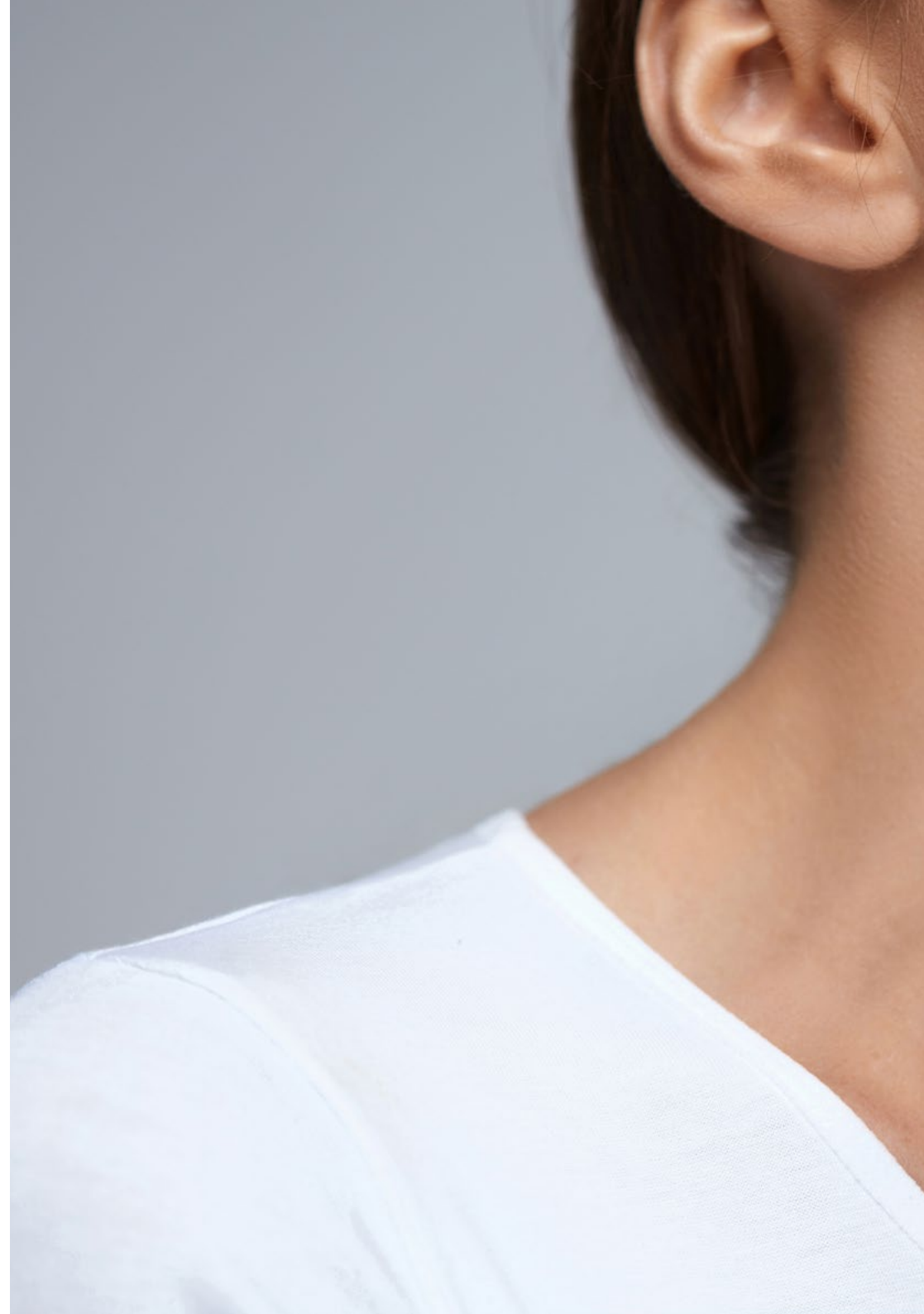
*This refresher program will provide the skills to generate a sense of confidence in your medical practice, which will help you grow both personally and professionally”*



## General Objectives

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- Update knowledge on new trends in human nutrition in both health and pathological situations through evidence-based medicine
- Promote work strategies based on the practical knowledge of the new trends in nutrition and its application to 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 continued specialization and research.
- Train the professional for research into patients with nutritional problems





## Specific Objectives

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- Distinguish dietary management of patients with debilitating neuromuscular pathology and who have suffered strokes.
- Identify the nutritional support needs of patients with Parkinson's disease and Alzheimer's disease at each evolutionary stage.
- Update knowledge of specific formulae for artificial nutrition in adults
- Incorporate the nutritional treatment of the most prevalent deficiency diseases in adults.
- Manage the diet of critically ill patients.



*Seize the opportunity and take the step to get up to date on the latest developments in Nutrition in Neurological Diseases and Other Special Situations"*

03

# Course Management

The teaching team selected by TECH has extensive prestige in their professions and are experts 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 the most recent updates in the field that will allow the student to learn, as well as increase their skills in the field of Neurological Diseases and Other Special Situations in Medicine.



A close-up photograph of a person's mouth, showing a white dental appliance (possibly a denture or retainer) in place. The person has a mustache and is looking slightly to the side. The image is partially obscured by a blue diagonal graphic element.

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*This is your opportunity to apply as a qualified professional and learn from the best experts in the industry. Become a successful practitioner of Nutrition in Kidney Disease in Medicine"*

## International Guest Director

Dr. Sumantra Ray is an internationally recognized specialist in **Nutrition** and his main areas of interest are **Nutrition Education in Health Systems** and **Cardiovascular Disease Prevention**. With his outstanding experience in this health field, he has served as a consultant on special assignment for the **Nutrition Management** of the **World Health Organization** Headquarters in Geneva. He has also worked as **Director of Research** in Food Security, Health and Society in the Faculty of Humanities and Social Sciences at the University of Cambridge.

For his constant commitment to the dissemination of **healthy eating habits**, he has received the **Josephine Lansdell Award** from the British Medical Association. Specifically, this recognition highlighted his contributions related to nutrition and **Cardiovascular Prevention**. Also, as an international expert, he has participated in a work program on **Food, Nutrition and Education** in India, led by the University of Cambridge and funded by the UK Global Challenges Research Fund.

Dr. Sumantra Ray's studies are worldwide references, focusing on **global food security**, as it is a fundamental aspect for the development of societies. In addition, he has demonstrated his leadership skills as a **Senior Clinical Scientist** at the **Medical Research Council**, focusing on **Nutrition and Vascular Health** studies. In this position, he directed an experimental medicine facility dedicated to Human **Nutrition** studies.

Throughout his career he has authored more than **200 scientific publications** and has written the **Oxford Handbook of Clinical and Health Research**, aimed at strengthening the basic research skills of health care workers around the world. In this sense, he has shared his scientific findings in numerous presentations and congresses, in which he has participated in different countries.



## Dr. Ray, Sumantra

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- ♦ Executive Director and Founder, NNEdPro Global Nutrition and Health Centre, Cambridge, UK
- ♦ Director of Research in Food Security, Health and Society in the Faculty of Humanities and Social Sciences, University of Cambridge
- ♦ Co-Founder and President of the BMJ Scientific Journal Nutrition, Prevention and Health
- ♦ Presidential Advisor at the School of Advanced Studies on Food and Nutrition, University of Parma
- ♦ Vice President of the Conference of Medical Academic Representatives of the BMA
- ♦ Consultant on special assignment for the Nutrition Directorate of the World Health Organization Headquarters in Geneva
- ♦ Honorary International Dean of the Cordia Colleges in India
- ♦ Senior Clinical Scientist with the Medical Research Council
- ♦ Bachelor's Degree in Medicine

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*Thanks to TECH, you will be able to learn with the best professionals in the world”*

## Management



### Ms. Aunió Lavarías, María Eugenia

- Pharmacist and Clinical Nutrition Expert
- "Author of the reference book in the field of Clinical Nutrition "Dietetic Management of Overweight in the Pharmacy Office". (Panamerican Medical Publishing House)
- Pharmacist with extensive experience in the public and private sector
- Pharmacist in Valencia Pharmacy
- Pharmacy Assistant in the British pharmacy and health and beauty retail chain Boots, UK
- Degree in Pharmacy and Food Science and Technology. University of Valencia
- Director of the University Course "Dermocosmetics in the Pharmacy Office"

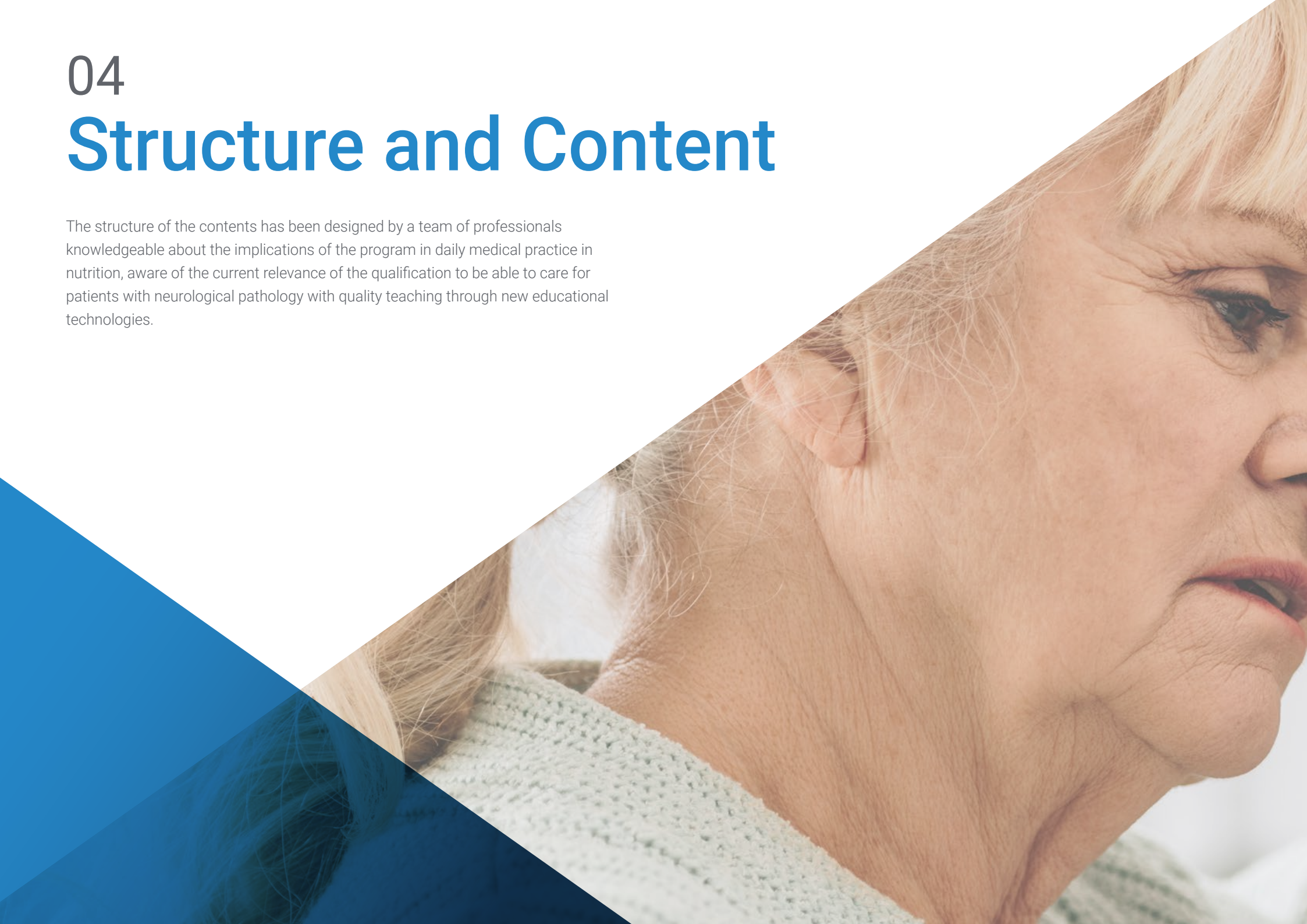




# 04

# Structure and Content

The structure of the contents has been designed by a team of professionals knowledgeable about the implications of the program in daily medical practice in nutrition, aware of the current relevance of the qualification to be able to care for patients with neurological pathology with quality teaching through new educational technologies.





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*This Postgraduate Certificate in Nutrition in Neurological Diseases and Other Special Situations 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 Neurological Diseases

- 2.1. Swallowing Disorders
  - 2.1.1. Patient Assessment
  - 2.1.2. Nutritional Recommendations and Advice
  - 2.1.3. Nutritional Treatments
- 2.2. Disabling Neuromuscular Disorders
  - 2.2.1. Patient Assessment
  - 2.2.2. Nutritional Recommendations and Advice
  - 2.2.3. Nutritional Treatments
- 2.3. Stroke
  - 2.3.1. Patient Assessment
  - 2.3.2. Nutritional Recommendations and Advice
  - 2.3.3. Nutritional Treatments
- 2.4. Parkinson's Disease
  - 2.4.1. Patient Assessment
  - 2.4.2. Nutritional Recommendations and Advice
  - 2.4.3. Nutritional Treatments
- 2.5. Alzheimer's Disease



- 2.5.1. Patient Assessment
- 2.5.2. Nutritional Recommendations and Advice
- 2.5.3. Nutritional Treatments

### Module 3 Nutrition in Special Situations

- 3.1. Nutrition in Metabolic Stress Situations
  - 3.1.1. Sepsis
  - 3.1.2. Polytrauma
  - 3.1.3. Burns
  - 3.1.4. Transplant Recipient
- 3.2. Oncology Patient Nutrition
  - 3.2.1. Surgical Management
  - 3.2.2. Chemotherapy Treatment
  - 3.2.3. Radiotherapy Treatment
  - 3.2.4. Bone Marrow Transplant
- 3.3. Immune Diseases
  - 3.3.1. Acquired Immunodeficiency Syndrome

### Module 4. Nutrition in Deficiency Diseases

- 4.1. Malnutrition
  - 4.1.1. Hospital Malnutrition
  - 4.1.2. The Fasting and Refeeding Cycle
- 4.2. Anaemia. Hemochromatosis
- 4.3. Vitamin Deficiencies
- 4.4. Osteoporosis
- 4.5. Oral Disease and its Relation to Diet



*A unique, key and decisive training 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, we use the Case Method

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

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



According to Dr. Gérvas, the clinical case is the annotated presentation of a patient, or group of patients, which becomes a "case", an example or model that illustrates some peculiar clinical component, either because of its teaching power or because of its uniqueness or rarity. It is essential that the case is based on current professional life, trying to recreate the real conditions in the physician'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. Students who follow this method not only achieve the assimilation of concepts, but also a development of their mental capacity, through exercises that evaluate real situations and the application of 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

TECH effectively combines the Case Study methodology with a 100% online learning system based on repetition, which combines 8 different teaching elements in each lesson.

We enhance the Case Study with the best 100% online teaching method: Relearning.

*Professionals will learn through real cases and by resolving 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 250,000 physicians have been trained with unprecedented success in all clinical specialties regardless of surgical load. 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 highly specific and precise.

These contents are then adapted in 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.



#### Surgical Techniques and Procedures on Video

TECH introduces students to the latest techniques, the latest educational advances and 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 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.





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

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



#### Testing & Retesting

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



#### Classes

There is scientific evidence on the usefulness of learning by observing experts. The system known as Learning from an Expert strengthens knowledge and memory, and generates confidence in future difficult decisions.



#### Quick Action Guides

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



# 06 Certificate

The Postgraduate Certificate 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 Neurological Diseases and Other Special Situations** 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 certificate 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 Neurological Diseases and Other Special Situations**

Modality: **online**

Duration: **6 weeks**



\*Apostille Convention. In the event that the student wishes to have their paper certificate issued with an apostille, TECH EDUCATION will make the necessary arrangements to obtain it, at an additional cost.



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education information tutors  
guarantee accreditation teaching  
institutions technology learning  
community commitment  
personalized service innovation  
knowledge present  
development languages  
virtual classroom



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