

# Postgraduate Certificate Oncology Patient Nutrition





## Postgraduate Certificate Oncology Patient Nutrition

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

Website: [www.techtute.com/in/pharmacy/postgraduate-certificate/oncology-patient-nutrition](http://www.techtute.com/in/pharmacy/postgraduate-certificate/oncology-patient-nutrition)

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# 01

# Introduction

Cancer in its different presentations is a disease that affects millions of people around the world. In these cases, a good nutritional base can be highly beneficial for the patient's health, since it will allow them to feel stronger and will positively influence the resistance of their immune system, especially during the chemo and radiotherapy treatment processes. With the aim that the professional can know in detail the latest developments related to the advances that have been made in the field of Nutrition for oncology patients, TECH has developed this 100% online program through which the graduate will be able to catch up on everything related to personalized planning to improve the symptoms and quality of life of these people.





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*The nutritional deterioration of cancer patients needs professionals like you to recover energy and improve their quality of life. With this program you will get up to date on everything you need to achieve it”*

The diagnosis of cancer can change the life of any person, not only because of the high mortality rate that accompanies this disease, but also because of the physical and psychological consequences it causes in the patient, especially during the aggressive treatment stages such as radio and chemotherapy. Mainly during this time, nutritional assistance from a professional is essential, since this type of intervention causes a nutritional imbalance that can lead to the worsening of the patient's health or the appearance of associated comorbidities such as diabetes, hypertension or osteoporosis.

For this reason, the Nutrition specialist must know in detail the latest advances that have been made in this field, associated with the most effective recommendations for working with these people. You can work on all these aspects in the Postgraduate Certificate in Oncology Patient Nutrition. It is a 100% online program thanks to which graduates will be able to update themselves on everything related to the disease, its nutritional assessment and appetite alterations that may arise during their illness. In this way, you will be able to address these clinical cases in a more personalized way and with the security of doing so following the guidelines of the most innovative and effective strategies.

In order to do this, it will have 150 hours of training that includes not only the best syllabus, but additional high-quality material presented in different formats, and the support of a teaching team specialized in the area of Nutrition and Endocrinology. It is an academic experience that will not only help you catch up, but will also allow you to increase your knowledge from wherever you want and with a completely personalized schedule.

This **Postgraduate Certificate in Oncology Patient Nutrition** 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 be able to delve into the pathophysiology of cancer, to update your knowledge from the base and be able to better understand the origin of the side effects that the patient is experiencing”*



“

*Anorexia, dysgeusia, dysphagia and mucositis are appetite disorders that occur during cancer. You will be able to focus on each one of them and know in detail the personalized plans for their treatment”*

The program's teaching staff includes professionals from the sector who contribute their work experience to this educational program, as well as renowned specialists from leading societies and prestigious universities.

The multimedia content, developed with the latest educational technology, will provide the professional with situated and contextual learning, i.e., a simulated environment that will provide immersive education programmed to learn in real situations.

This program is designed around Problem-Based Learning, whereby the professional must try to solve the different professional practice situations that arise during the academic year. For this purpose, the student will be assisted by an innovative interactive video system created by renowned and experienced experts.

*You will work on the psychological aspects of the patient and on general nutritional recommendations according to experts.*

*You will be able to delve into the specific alterations of the most used antineoplastic agents in the nutrient-treatment interaction.*



# 02 Objectives

Cancer is an issue that, due to its continuous latency over time, worries all professionals involved in its treatment. That is why TECH has decided to create this program, with the aim that the graduate can acquire broad, exhaustive knowledge, but, above all, updated on the latest developments related to the nutritional treatment of cancer patients. For this reason, you will have at your disposal the most innovative academic tools in the university sector, in order to make it easier for you to get up to date in just 6 weeks.





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*If your goal is to know in detail and exhaustively the nutritional treatment of cancer patients, enroll now and start an academic experience with which you will achieve it in less than 6 weeks.*



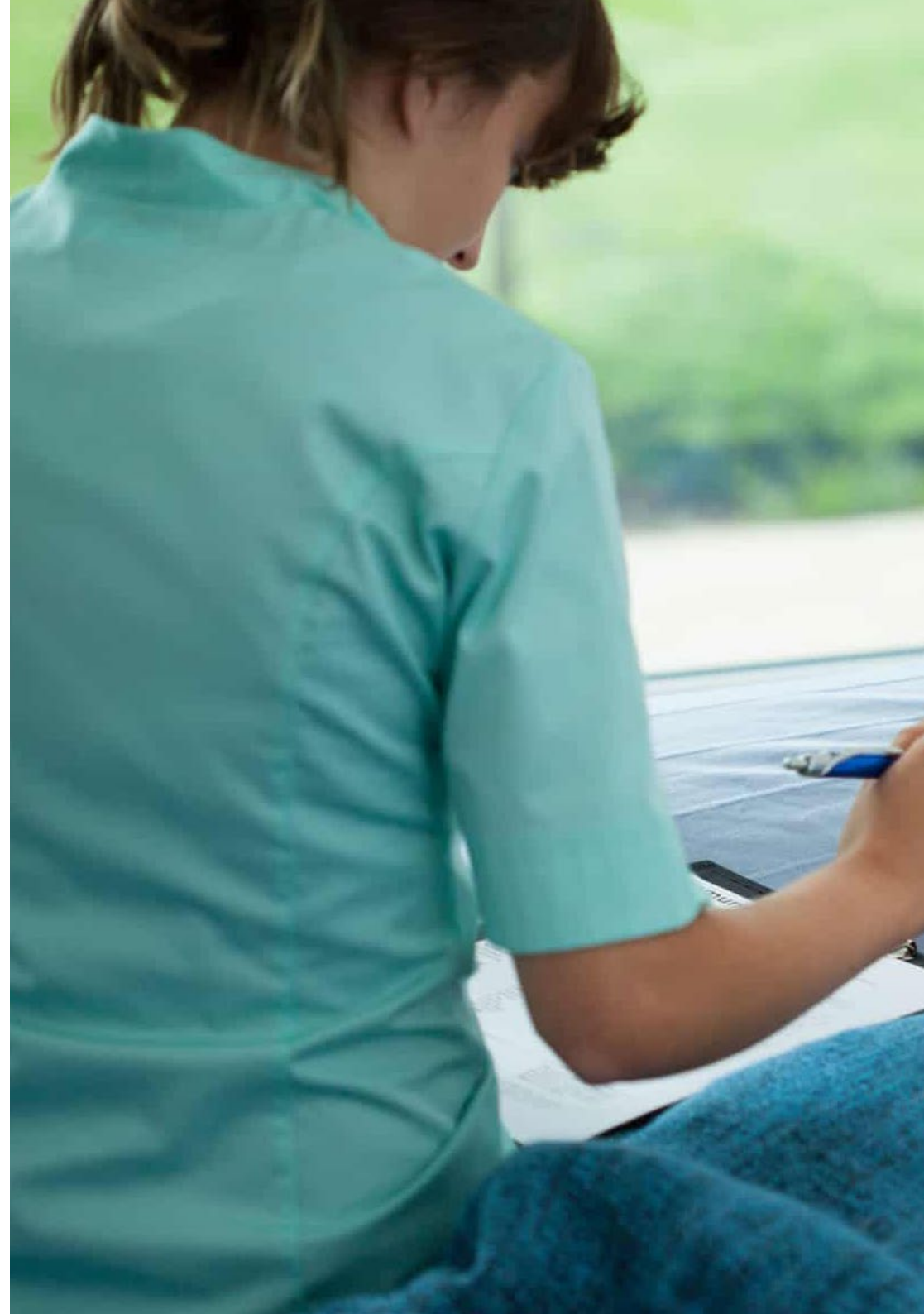
## General Objectives

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- ◆ Develop broad, exhaustive, specialized and updated knowledge about nutrition in cancer patients and in the different phases of their treatment
- ◆ Understand the nutritional needs of this type of patients to be able to establish personalized eating plans for each one



*You will have real clinical cases extracted from specialist consultations in which you will have to put your skills into practice and establish your own approach strategies based on the recommendations of the teaching team”*





## Specific Objectives

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

03

# Course Management

Apart from the professional experience available to the teaching team of this Postgraduate Certificate, its main characteristic is the human quality of each of its members. These are active Nutrition and Endocrinology specialists, who have worked for years with cancer patients and who now want to combine their consultation with teaching, being able to transmit to interested graduates their knowledge and strategies to satisfactorily address these clinical cases with a minimum margin of error.





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*A program that gives you the opportunity to catch up with specialists in Nutrition and Endocrinology with a wide and extensive professional career”*



## 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 La Society of Endocrinology, Nutrition, and Diabetes of the Community of Madrid SENDIMAD ()
- 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 Pediatric Endocrinology and Nutrition at the university Foundation Jimenez Díaz Hospital.
- Abraham García Almansa Clinical Nutrition Lifetime Achievement Award
- Recognized among the 100 best Doctors in Spain according to Forbes list
- Castilla - La Mancha Diabetes Foundation (FUCAMDI) Diabetes and Nutrition Lifetime Achievement Award



### **Dr. Sánchez Jiménez, Álvaro**

- Specialist in Nutrition and Endocrinology at Jiménez Díaz Foundation 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 of the Excellence Course in Obesity at the Jiménez Díaz Foundation University Hospital
- Graduate in Human Nutrition and Dietetics from the Complutense University of Madrid.
- Nutrition in the elderly, Complutense University of Madrid
- Nutrition and Sport for Professionals, Tripartite Foundation
- Refresher course on practical type 1 and 2 diabetes for healthcare professionals.



### Dr. Montoya Álvarez, Teresa

- ♦ Head of the Endocrinology and Nutrition Service of the Infanta Elena University Hospital
- ♦ Head of Volunteering at the Garrigou Foundation
- ♦ Graduate in Medicine and Surgery from Universidad de Navarra
- ♦ Master in Obesity and its Comorbidities: Prevention, Diagnosis and Integral Treatment at the University Rey Juan Carlos
- ♦ Course in Bariatric Antecedents of Surgery Patient Emergencies: Key References for the Attending Physician
- ♦ Member of: Institute for Health Research Foundation Jiménez Díaz, Health Commission of FEAPS Madrid, Trisomy 21 Research Society

## Professors

### Mr. Martínez Martínez, Alberto

- ♦ Nutritional Advisor at Santiveri
- ♦ Dietitian responsible for the menu of children with food allergy. Gastronomic
- ♦ Dietician- Clinical Nutritionist at the University Hospital Antonio
- ♦ Degree in Human Nutrition and Dietetics. Fluminense Federal University
- ♦ Graduate in Human Nutrition and Dietetics at the University of Valencia.
- ♦ Master's Degree in Agri-environmental and Agri-food Sciences. Autonomous University of Madrid

### Ms. Yela Salguero, Clara

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



#### **Dr. Sanz Martínez, Enrique**

- ◆ Clinical Nutritionist at the University Hospital General de Villalba and Rey Juan Carlos University Hospital.
- ◆ Dietitian in the project PLUS researcher in the Health Research Institute of the Jiménez 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 in Obesity and its Comorbidities: Prevention, Diagnosis and Integral Treatment at the University Rey Juan Carlos

#### **Dr. Hoyas Rodríguez, Irene**

- ◆ Specialist in Endocrinology and Nutrition
- ◆ Specialist in Endocrinology and Nutrition at the Fundación Jiménez Díaz and Infanta Elena Hospitals
- ◆ Specialist in Endocrinology and Nutrition at the Beata María Ana Hospital
- ◆ Specialist in Endocrinology at the University Hospital 12 de Octubre
- ◆ Degree in Medicine from the Complutense University of Madrid
- ◆ Postgraduate course in Treatment of Diabetes Mellitus Type 2 at the Autonomous University of Barcelona



# 04

# Structure and Content

This Postgraduate Certificate has been developed taking into account the recommendations of the teaching team, who have been in charge of selecting the information that has subsequently been adapted to the Relearning methodology. As a result, students will not have to spend extra hours memorizing, but will see a natural and progressive updating of their knowledge thanks to the reiteration of the most important concepts throughout the syllabus.







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*You will be able to delve into cachexia as a metabolic alteration caused by cancer and the most appropriate and innovative nutritional recommendations for its treatment”*



## Module 1. Oncology Patient Nutrition

- 1.1. Pathophysiology of Cancer
- 1.2. Relationship of Cancer with Eating Habits and Potential Carcinogens
- 1.3. Assessment of Nutritional Status in the Oncologic Patient
- 1.4. Nutrient-Antineoplastic Treatment Interaction
  - 1.4.1 Specific Changes in the Most Frequently Used Antineoplastic Agents
- 1.5. Psychological Aspects in the Patient and General Nutritional Recommendations in the Oncology Patient
- 1.6. Nutrition in the Appetite and Swallowing Alterations Caused by the Pathology or Treatments
  - 1.6.1 Anorexia
  - 1.6.2 Dysgeusia.
  - 1.6.3 Dysphagia
  - 1.6.4 Mucositis
  - 1.6.5 Xerostomia
- 1.7. Nutrition in Digestive Disorders Caused by Pathology or Treatments
  - 1.7.1 Malabsorption
  - 1.7.2 Diarrhea
  - 1.7.3 Dysbiosis
  - 1.7.4 Constipation
- 1.8. Nutrition in Metabolic Alterations Caused by the Pathology: Cachexia
- 1.9. Nutrition Before and After Oncological Surgery
  - 1.9.1 Head and Neck
  - 1.9.2 Esophageal
  - 1.9.3 Gastric
  - 1.9.4 Pancreaticobiliary
  - 1.9.5 Small and Large Intestine
- 1.10. Hospital Nutrition
  - 1.10.1 Oral
  - 1.10.2 Enteral
  - 1.10.3 Parenteral





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*Don't think twice and enroll now in this degree with which you will not only fulfill your goal of catching up, but you will end up with the feeling of knowing in detail all the aspects of nutrition in cancer patients"*



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.





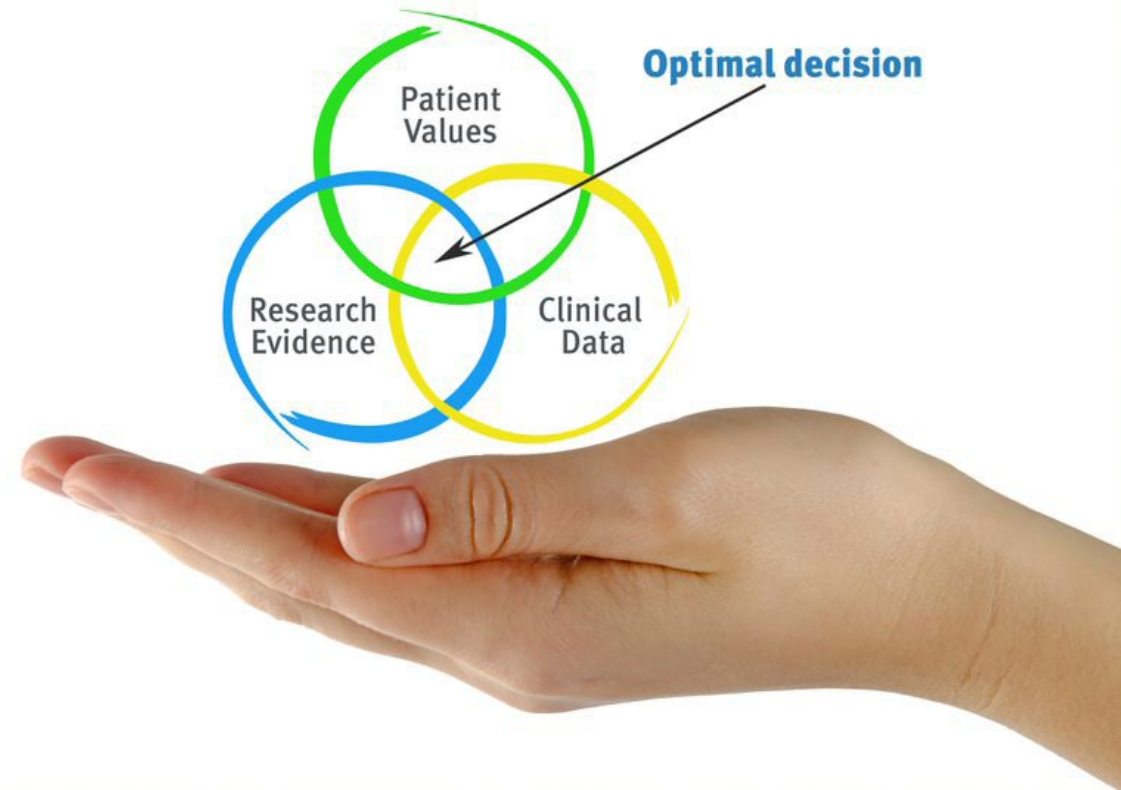
*Discover Relearning, a system that abandons conventional linear learning, to take you through cyclical teaching systems: a way of learning that has proven to be extremely effective, especially in subjects that require memorization"*



## 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

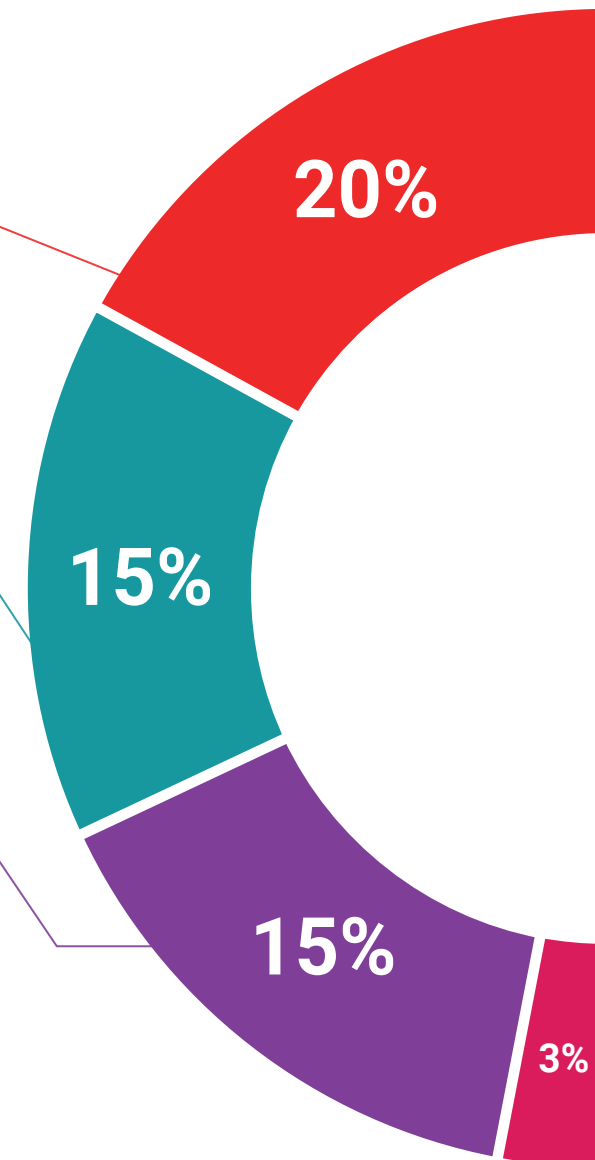
The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

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

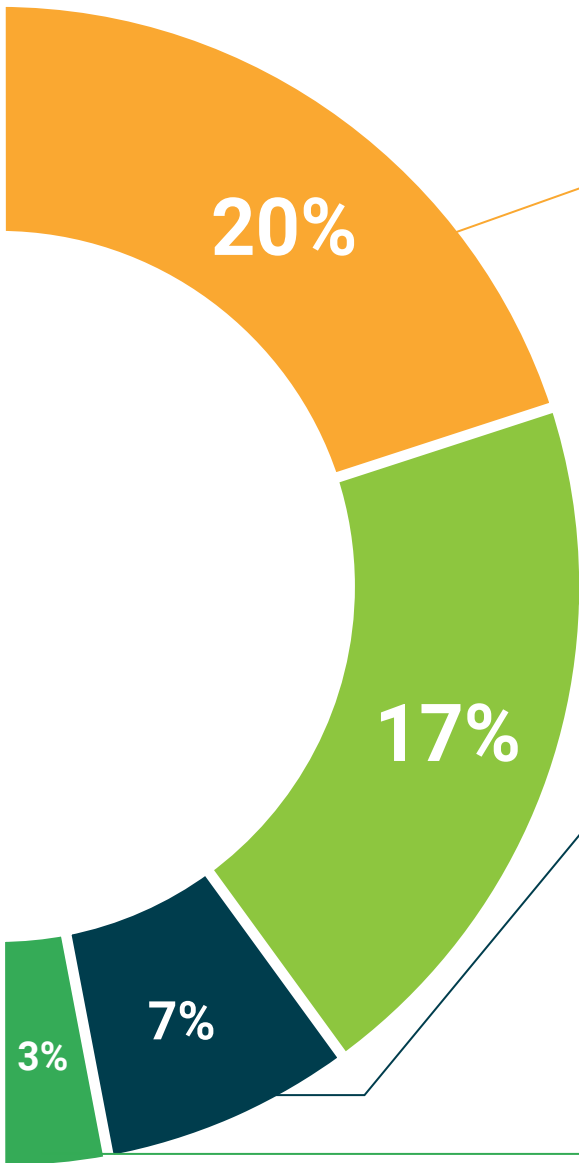


### Additional Reading

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 Oncology Patient Nutrition, 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 Oncology Patient Nutrition** 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 Diploma, and meets the requirements commonly demanded by labor exchanges, competitive examinations, and professional career evaluation committees.

Title: **Postgraduate Certificate in Oncology Patient Nutrition**

Official N° of Hours: **150 h.**



\*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.



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



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# Postgraduate Certificate

## Oncology Patient Nutrition

