

# Postgraduate Diploma

## Endoscopic Oncologic Techniques



## Postgraduate Diploma Endoscopic Oncologic Techniques

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

Website: [www.techtute.com/us/medicine/postgraduate-diploma/postgraduate-diploma-endoscopic-oncologic-techniques](http://www.techtute.com/us/medicine/postgraduate-diploma/postgraduate-diploma-endoscopic-oncologic-techniques)

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# 01

# Introduction

Accuracy in the detection of oncologic pathologies of the digestive tract depends to a large extent on the level of expertise and updating of the specialist in the use of the latest endoscopic techniques. This is why it is necessary to continuously update this knowledge in order to remain at the forefront of healthcare and to continue offering a high-quality service. For this reason, TECH has assembled a powerful teaching team for the development of this program, which contains the most recent advances in echoendoscopies, mucosectomies and cholangioscopies, in addition to other knowledge and skills essential in updating the specialist in the latest scientific postulates on Oncological Endoscopic Techniques.





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*You will have 24-hour access to the latest advances in Endoscopic Oncological Techniques at the highest level"*

The increasingly advanced knowledge of techniques such as panendoscopy or chromoendoscopy allows the specialist to have a greater mastery in the diagnosis and treatment of tumors of all types, especially those of the digestive system.

Tumor complications in the digestive tract are a challenge even for the most highly trained specialists, which is why the level of training of the specialist is a determining factor in the success of treatment and diagnosis.

Aware of this reality, TECH has brought together in this program the most updated knowledge of the most successful endoscopic techniques in the oncological field. The specialist will find a total renovation in endoscopic ultrasound and ERCP, as well as the most advanced resection techniques and the use of artificial intelligence in the diagnosis of lesions during endoscopy.

The scientific focus of TECH makes it the best academic option to continue the process of improvement and constant updating of the most demanding specialist. For this reason, the level of the teaching staff is high, with international experience in dealing with all types of oncological pathologies of the digestive system.

All this in a program with a completely online format, which respects the personal and professional obligations of the specialist. This means that all the didactic material is available for downloading from any device with an internet connection, and can therefore be studied when, where and how it is most convenient for the specialized professional.

This **Postgraduate Diploma in Endoscopic Oncologic Techniques** contains the most complete and up-to-date scientific program on the market. The most important features include:

- ♦ The development of case studies presented by experts in Oncologic Endoscopy
- ♦ The graphic, schematic, and eminently 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 assignments
- ♦ Availability of access to content from any fixed device
- ♦ or laptop with internet connection



*Don't miss the best opportunity to integrate the latest advances in Endoscopic Oncological Techniques into your daily practice"*

“

*The teaching team's proven expertise in oncologic pathologies gives you the best possible endorsement to access the highest quality material in the academic landscape"*

The program's teaching staff includes professionals from the sector who contribute their work experience to this training 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 training programmed to train 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 delve into the most modern use of echoendoscopy and ERCP in post-surgical treatments.*

*By choosing TECH you are choosing the largest academic institution in Spanish, which reinforces your decision to be updated with the best.*



# 02 Objectives

As endoscopic techniques are a healthcare field of complex and incessant research, it is usual that there are continuous developments that the specialist must be aware of in order to update all his knowledge. Therefore, the objective of this program is none other than to offer the best possible academic option for the specialist who wants to incorporate the most modern scientific postulates in the endoscopic approach to oncologic pathologies into their daily practice.







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*You won't have to sacrifice your personal or professional life to remain at the forefront of oncologic endoscopic treatments"*



## General Objectives

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- Develop the medical professional about endoscopic techniques of gastrointestinal tumor pathology related to diagnosis, treatment and complications in order to improve the quality of patient care.
- Deepen the knowledge of the most commonly used endoscopic techniques in oncologic pathology in order to optimize their use in routine clinical practice.

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*Enroll now in this program and don't miss the opportunity to continue your continuous updating process with the best health academics”*





## Specific Objectives

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### Module 1. Echoendoscopy and ERCP

- ♦ Deepen in the techniques of echoendoscopy and ERCP as well as the necessary material to develop the procedures in the oncological field
- ♦ Manage the development of an ampulectomy having clear indications and contraindications of the technique
- ♦ Internalize different techniques performed by echoendoscopy that can improve the quality of life of the oncologic patient, such as celiac plexus neurolysis

### Module 2. Resection Techniques

- ♦ Master the knowledge of submucosal endoscopic dissection in order to strengthen the theoretical knowledge of a highly complex technique
- ♦ Control the different variants of mucosectomy that will allow us to obtain a higher success rate in the resection of the different lesions
- ♦ Deepen in the necessary material for the development of the technique which will allow to choose the most optimal material according to the lesion to treat
- ♦ Develop the different techniques that help us to facilitate submucosal endoscopic dissection
- ♦ Professionalize the endoscopic management of the different complications derived from resection

### Module 3. Latest Advances in Endoscopy

- ♦ Master the indications for Full Thickness Resection and the development of the technique
- ♦ Develop the role of radiofrequency both in biliary tract tumor pathology and in the treatment of actinic proctitis secondary to radiotherapy
- ♦ Discover the possibilities presented by artificial intelligence and its possible future use for injury detection

# 03

# Course Management

TECH only trusts in the best healthcare professionals for the development of its programs, so the specialist is guaranteed the highest possible quality of both theoretical content and practical exercises and real clinical cases. The teaching staff of this program has a perfect knowledge of the most modern endoscopic techniques, thus transferring to the syllabus all their expertise in systems such as radiofrequency of tumors or ampulectomy, among other recent knowledge of great use to the professional.





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*The most specialized and experienced professionals in the field of endoscopic techniques share in this program the knowledge you need to get up to speed in the complex field of oncology”*

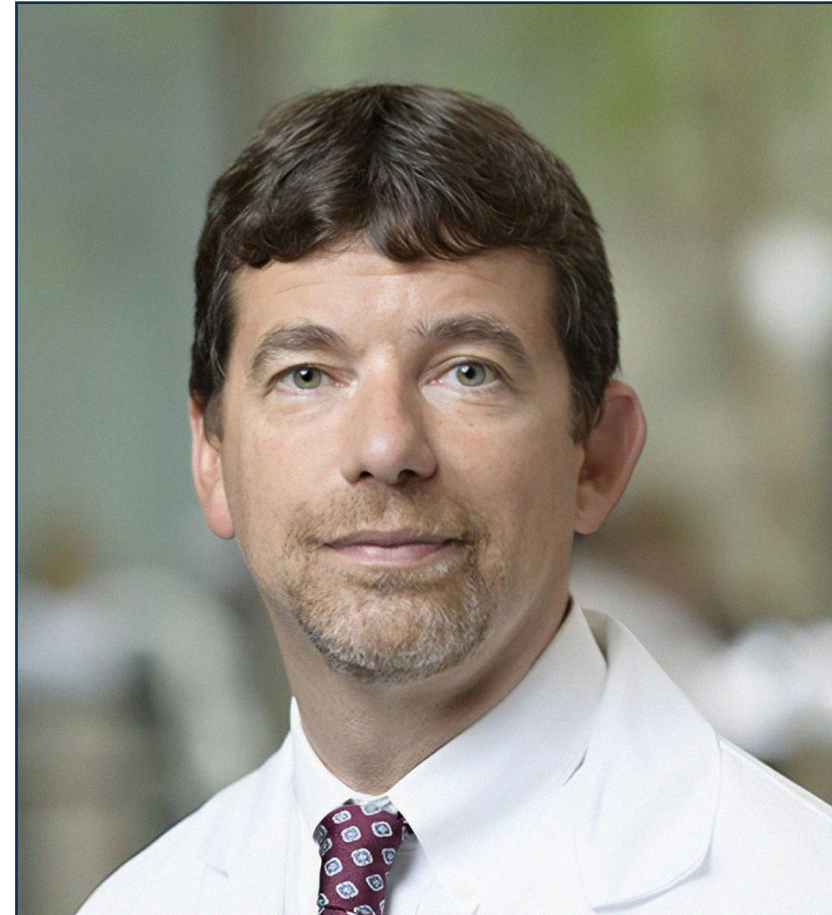
## International Guest Director

Considered one of the most prestigious **gastroenterologists** worldwide, Dr. Mark Schattner has accumulated several awards for his active **research** and **clinical work**. Among other awards, he has been distinguished in the **Castle Connolly list** of the **best doctors** in the **United States** for several years and the magazine and international portal of **Top Doctors** have named him as one of the main experts in the **New York metropolitan area**. He also received the Nobility in Science Award from the National Pancreas Foundation of the US.

In addition, he has focused his established professional career on the approach to different **gastrointestinal tumors**. In particular, he is a reference in the diagnosis and therapeutic intervention of **Colon, Pancreatic and Esophageal Cancer**. In addition, he has experience in the management of the most advanced tools for the development of **Colonoscopies, Upper Digestive Endoscopies, Endoscopic Ultrasound, Cholangiopancreatography (CPRE), Polypectomy**, among others. At the same time, his name appears as author and co-author in almost a hundred scientific articles, published in journals of first academic impact.

For two decades, this physician has been linked to **Memorial Sloan Kettering Cancer Center**, becoming **Chief** of the **Gastroenterology, Hepatology and Nutrition Service**. However, the expert also has training stays in other renowned institutions, such as the Weill Cornell Medical Center Hospital in New York City. In addition, he holds an official certification in Gastroenterology from the American Board of Internal Medicine.

As for his training, Dr. Schattner completed a **bachelor's degree** at Brown University and subsequently completed his **fellowship** at the University of Pennsylvania. He has also been involved in academic consulting at Weill Cornell Medical College, teaching innovative content on the treatment of **Dysphagia, Ulcerative Colitis or Crohn's Disease and Fatty Liver Disease**.



## Dr. Schattner, Mark

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- Chief of the Gastroenterology, Hepatology and Nutrition Service, Memorial Sloan Kettering Cancer Center, New York, United States
- Residency at Weill Cornell Medical Center Hospital, New York City
- Professor of Clinical Medicine at Weill Cornell Medical College
- M.D. from the University of Pennsylvania
- B.S. Brown University
- Board Certified in Gastroenterology, American Board of Internal Medicine
- Nobility in Science Award from the National Pancreas Foundation

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

## Management



**Dr. Honrubia López, Raúl**

- Digestive System Specialist at the Infanta Sofia University Hospital
- Resident intern at University Hospital La Paz
- Degree in Medicine and Surgery from the University of Alcalá de Henares.
- PhD in Medicine and Surgery from the Autonomous University of Madrid.
- Stay at the Cancer Center, Keio University School of Medicine in Japan



**Dr. Bustamante Robles, Katherine Yelenia**

- Medical specialist at Hermanas Hospitalarias de San Rafael Hospital
- Digestive System Specialist at the University Hospital La Paz
- Specialized training in echoendoscopy at the Hospital Clinic of Barcelona



## Professors

### Dr. Barquero Declara, David

- ♦ Specialist in Digestive and Hepatology at Hospital Sant Joan Despí Moisès Broggi and Hospital General de l'Hospitalet
- ♦ Digestology Attending in Endos Medicine
- ♦ Member of the Catalan Society of Medical and Surgical Endoscopy
- ♦ Degree in Medicine from the University of Barcelona
- ♦ D. in Internal Medicine from the Autonomous University of Barcelona

### Dr. Torres Vargas, Nurka Cristina

- ♦ Medical specialist in the Digestive System Service of the Hospital Can Misses
- ♦ Specialist in the Digestive System Service at Policlínica Nuestra Señora del Rosario
- ♦ Undergraduate Degree in Medicine and Surgery at the Peruvian University Cayetano Heredia
- ♦ Postgraduate course in Digestive System at the San Millán-San Pedro de Logroño Hospital Complex

### Dr. Mitsunaga, Yutaka

- ♦ Specialist in Gastroenterology at Toranomom Hospital
- ♦ Specialist in Gastroenterology at the Yachiyo Medical Center of Tokyo Women's Medical University
- ♦ Physician certified in the Japanese Society of Internal Medicine
- ♦ Specialist in the Japanese Society of Gastrointestinal Endoscopy

### Dr. Marín Serrano, Eva

- ♦ Digestive System Specialist at the La Paz University Hospital
- ♦ President of the Spanish Association of Digestive Ultrasound
- ♦ Secretary of the Spanish Federation of Ultrasound Societies in Medicine and Biology
- ♦ Degree in Medicine and Surgery from the University of Granada
- ♦ Digestive System Specialist at the University Hospital La Paz
- ♦ Doctor of Medicine Cum Laude from the University of Cadiz
- ♦ Master's Degree in Clinical Management, Medical and Healthcare Management, CEU Cardenal Herrera University

### Dr. Chavarría Herbozo, Carlos

- ♦ Digestive System Specialist at the Rey Juan Carlos University Hospital
- ♦ Specialist physician at the Río Hortega University Hospital
- ♦ Undergraduate Degree in Medicine and Surgery at the Peruvian University Cayetano Heredia
- ♦ Doctorate in Medicine from the Autonomous University of Madrid.
- ♦ Master's Degree in Advanced Digestive Endoscopy from the University Catholic of Murcia
- ♦ University Expert in Emergencies and Emergencies in Gastroenterology and Hepatology at the Distance University of Madrid

**Dr. García Mayor, Marian**

- ◆ Digestive System specialist at the Hospital Gómez Ulla and Hospital HM Montepríncipe
- ◆ Doctorate in Medicine from the Autonomous University of Madrid.
- ◆ Doctor in Gerontology at the University of Oviedo
- ◆ Master's Degree in Hepatology at Cardenal Herrera University

**Dr. García, Jose Santiago**

- ◆ Digestive System Specialist at the the Puerta de Hierro University Hospital
- ◆ Honorary Professor at the University of Kent
- ◆ Degree in Medicine from the Complutense University of Madrid
- ◆ Research grant from Kobe University (Japan) in endoscopic submucosal dissection (ESD)

**Dr. De Frutos Rosa, Diego**

- ◆ Digestive System Specialist at the the Puerta de Hierro University Hospital
- ◆ Digestive System specialist at Virgen del Mar and Sanitas La Moraleja Hospitals
- ◆ Degree in Medicine from the University of Valladolid
- ◆ Diploma in Statistics in Health Sciences at the Autonomous University of Barcelona
- ◆ Doctor in Medicine and Surgery at the Autonomous University of Madrid.





**Dr. Pacas Almendarez, Carlos**

- ♦ Medical specialist of monographic consultation of Hepatobiliary Diseases at the Hospital Infanta Sofía
- ♦ Digestive System Specialist at the University Hospital Infanta Sofía
- ♦ Digestive System Specialist at the General Hospital of Collado Villalba
- ♦ Degree in Medicine from the Spanish Ministry of Education and Science
- ♦ Doctor of Medicine, Faculty of Medical Sciences "Hospital Doctor Miguel Enriquez", Higher Institute of Medical Sciences of Havana, Cuba
- ♦ Doctor in Medicine and Surgery from the Faculty of Medicine of the University of El Salvador.
- ♦ Residence in Gastroenterology and Hepatology at the University Hospital La Paz
- ♦ Specialist in Gastroenterology and Hepatology from the Spanish Ministry of Education and Science



*An impressive teaching staff, made up of professionals from different areas of expertise, will be your teachers during your training: a unique occasion not to be missed"*

# 04

## Structure and Content

Since Endoscopic Oncologic Techniques require a high degree of specialization on the part of the professional, this syllabus has been structured in the most precise and concise way possible, supported by a large amount of audiovisual material to alleviate the teaching load and contextualize the teaching. The specialist will have access at all times to 3 content-rich modules on endoscopic ultrasound, ERCP, resection techniques and the latest advances in endoscopy.





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*TECH offers the greatest facilities to the specialist, so you will obtain your Postgraduate Diploma without the need to do a final work"*

## Module 1. Echoendoscopy and ERCP

- 1.1. Types of Echoendoscopy Probes: Radial, Linear and Miniprobe Systems
- 1.2. Needle Types Used in Echoendoscopy-Guided FNA
- 1.3. Contrast in Echoendoscopy
- 1.4. Gastroenteroanastomosis in the Oncologic Patient Guided by EUS
- 1.5. Celiac Plexus Neurolysis, Alcoholysis and EUS-Guided Marker Placement
- 1.6. Equipment Used during ERCP: Cannulas, Sphincterotome and Balloons
- 1.7. ERCP Techniques: Pre-cutting, *Rendez Vous*, Cytology, Biopsy and Others
- 1.8. Ampullary Lesions. Ampulectomy
- 1.9. Echoendoscopy and ERCP in Patients with Post-surgical Anatomical Alterations Indications and Contraindications
- 1.10. Complications and Their Management in EUS and ERCP

## Module 2. Resection techniques

- 2.1. Polypectomy and Mucosectomy.
- 2.2. Material Used for Polypectomy and Mucosectomy
  - 2.2.1. Tweezers
  - 2.2.2. Cold and Diathermy Handles
  - 2.2.3. Programming of Electrosurgical Unit
- 2.3. Excision of Lesions According to Size
  - 2.3.1. Lesions Smaller than 20 mm
  - 2.3.2. Lesions Greater than 20 mm
- 2.4. Types of Endoscopic Mucosal Resection
- 2.5. Endoscopic submucosal Dissection General Indications
- 2.6. A Learning Curve
- 2.7. Material Used in Submucosal Endoscopic Dissection
  - 2.7.1. Types of Scalpels
  - 2.7.2. Solutions for Submucosal Injection
  - 2.7.3. Types of Caps
- 2.8. Traction Methods
- 2.9. Subsequent Management after Extirpation
  - 2.9.1. Fixation of the Lesion
  - 2.9.2. Criteria for Curative Resection
- 2.10. Management of Complications in Lesion Resection
  - 2.10.1. Bleeding
  - 2.10.2. Perforation
  - 2.10.3. Cicatricial Stenosis



### Module 3. Latest Advances in Endoscopy

- 3.1. Full-Thickness Resection
- 3.2. Radiofrequency of Biliary Tract Tumors
- 3.3. Cholangioscopy, Use in Oncologic Pathology
- 3.4. Artificial Intelligence to Enhance Diagnosis of Lesions during Endoscopy
- 3.5. Endoscopic Suture Systems, Not Only for Bariatric Endoscopy
- 3.6. Panendoscopy, Use of Colonic Capsule When Colonoscopy Could Not Be Complete
- 3.7. Rectal Radiofrequency in Actinic Proctitis after Radiotherapy
- 3.8. Excision of Lesions Using a Combination of Surgical and Endoscopic Techniques

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*You will find in this program the most current and important knowledge to incorporate into your daily practice in the management of Endoscopic Oncologic Techniques”*

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.





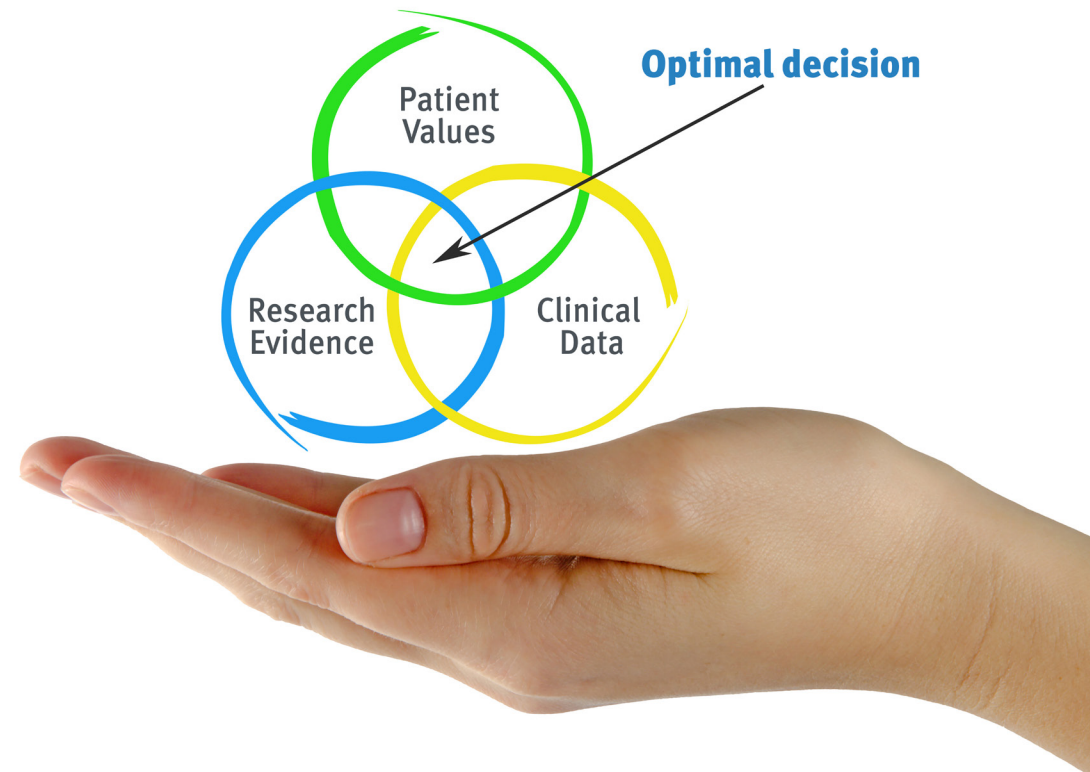
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*Discover Relearning, a system that abandons conventional linear learning, to take you through cyclical teaching systems: a way of learning that has proven to be extremely effective, especially in subjects that require memorization"*

## 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

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 the study of clinical cases with a 100% online learning system based on repetition, combining a minimum of 8 different elements in each lesson, a real revolution with respect to the mere study and analysis of cases.

*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.

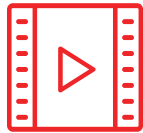
*Relearning will allow you to learn with less effort and better performance, involving you more in your specialization, developing a critical mindset, defending arguments, and contrasting opinions: a direct equation to success.*

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 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.



#### 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

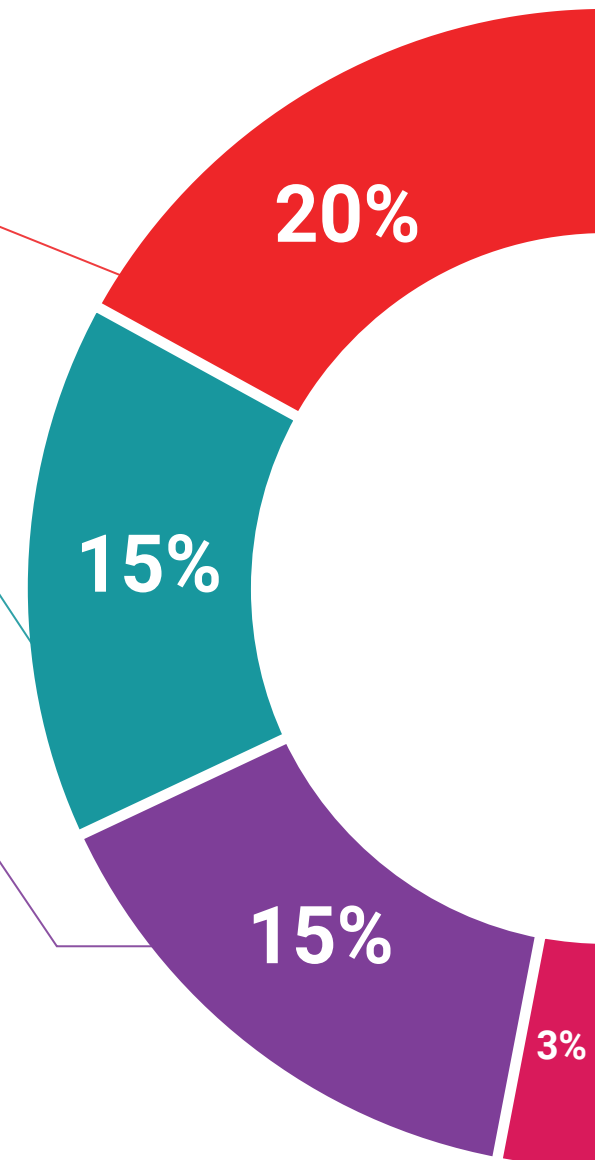
The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

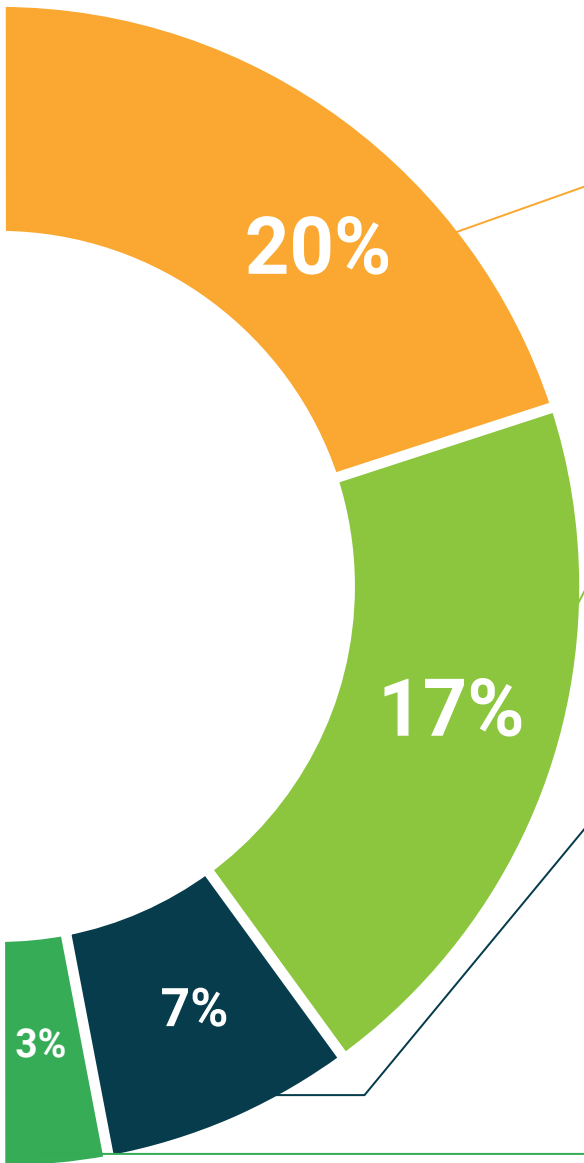
This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



#### 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 Diploma in Endoscopic Oncologic Techniques guarantees, in addition to the most rigorous and up-to-date training, access to a Postgraduate Diploma issued by TECH Global University.





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*Successfully complete this training program and receive your diploma without travel or laborious paperwork"*

This program will allow you to obtain your **Postgraduate Diploma in Endoscopic Oncologic Techniques** 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.

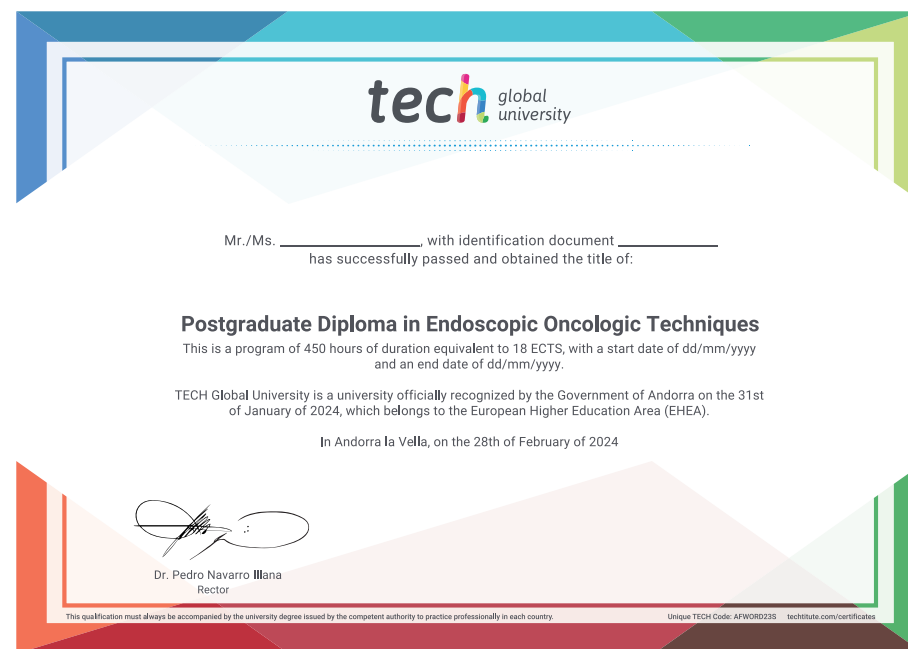
This **TECH Global University** title is a European program of continuing education and professional updating that guarantees the acquisition of competencies in its area of knowledge, providing a high curricular value to the student who completes the program.

Title: **Postgraduate Diploma in Endoscopic Oncologic Techniques**

Modality: **online**

Duration: **6 months**

Accreditation: **18 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 quality  
development language  
virtual classroom



## Postgraduate Diploma Endoscopic Oncologic Techniques

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