

# Postgraduate Diploma

## Oncologic Endoscopy of Biliary Tract and Pancreas



## Postgraduate Diploma Oncologic Endoscopy of Biliary Tract and Pancreas

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

Website: [www.techtute.com/pk/medicine/postgraduate-diploma/postgraduate-diploma-oncologic-endoscopy-biliary-tract-pancreas](http://www.techtute.com/pk/medicine/postgraduate-diploma/postgraduate-diploma-oncologic-endoscopy-biliary-tract-pancreas)

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# 01

# Introduction

Techniques such as ERCP or echoendoscopy are of great relevance for any specialist who treats oncologic pathologies of the digestive system, so there are continuous advances that require periodic updating. In recent years, strategies have been developed that allow greater efficiency in the diagnosis of pancreatic and biliary tract tumors, which greatly facilitates the work of the specialist when dealing with pancreatic adenocarcinomas, pancreatic neuroendocrine tumors or gallbladder carcinomas. This program contains the most current advances with which the specialist can update his knowledge in endoscopic oncology of the biliary tract and pancreas.







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*Access to the most innovative management of echoendoscopy and ERCP, with the most accurate diagnostic advances in oncologic pathologies of the biliary tract and pancreas”*

Techniques such as ERCP are among the most complex in the oncological approach, but also tremendously useful when treating tumors or bile duct stones. This means that the specialist must have the most up to date knowledge possible in order to be able to continue to provide the highest level of health care.

This Postgraduate Diploma emphasizes the relevance of echoendoscopy and ERCP in the work of any specialist who treats pathologies of the digestive system, complemented by modules on the most common oncological complications of the pancreas, gallbladder and biliary tract.

Thus, the specialist will update their practical methodology with the most recent scientific research in ampulectomy, gastroenteroanastomosis, endoscopic drainage of the biliary tract and endoscopic treatments for pancreatic neuroendocrine tumors, among other specialized knowledge of high interest.

This will lead the medical specialist to an unparalleled improvement framework, supported by the latest educational technology with which TECH develops all its programs. In addition, being a completely online degree, it provides the necessary flexibility to be able to combine it with the most demanding professional activity.

The **Postgraduate Diploma in Oncologic Endoscopy of Biliary Tract and Pancreas** 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
- ♦ Access to content from any fixed or portable device with an Internet connection



*Update your approach to oncological pathologies of the bile duct and pancreas with the most advanced improvements in techniques such as neurolysis of the celiac plexus or screening by endoscopic ultrasound"*

“

*By enrolling in this program, you are entering the largest academic institution in Spanish, which guarantees the quality of both the teaching staff and the contents in Oncologic Endoscopy that you will find”*

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.

*With TECH's pedagogical methodology, based on Relearning, you will not have to make a significant investment to acquire all the advances of this program.*

*Take advantage of the largest teaching staff in the academic panorama and nurture your professional expertise with the experience and knowledge of the best specialists in Oncologic Endoscopy.*



# 02 Objectives

The main objective of this degree is to provide the specialist with the most modern and updated tools, techniques and theories in the use of Oncologic Endoscopy of the Biliary Tract and Pancreas. Therefore, the entire syllabus and theory is based on the most recent discoveries in pathologies such as intrahepatic and extrahepatic cholangiocarcinomas, cystic lesions and other types of conditions of great interest to all specialists.







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*You will meet your professional goals even before you finish your degree, incorporating the latest updates in oncologic endoscopy into your daily work as you go along"*



## 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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*Don't waste your time and money on other degrees that don't think about you. At TECH you have the power to decide when, where and how to take on the entire teaching load to meet your own goals"*





## 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. Pancreas

- ♦ Delve into the epidemiology, risk factors, clinical presentation of pancreatic adenocarcinoma
- ♦ Develop the new endoscopic techniques available for the palliative treatment of pancreatic cancer
- ♦ Know all benign and malignant pancreatic cystic lesions
- ♦ Learn more about other pancreatic tumors, their main characteristics, as well as their diagnosis and prognosis
- ♦ Recognize the types of pancreatic duct stenosis and the endoscopic solutions that can be offered

### Module 3. Gallbladder and Bile Duct

- ♦ Internalize the types of cholangiocarcinomas, as well as the diagnosis and clinical presentation Staging of bile duct tumors with the aid of echoendoscopy
- ♦ Manage the complications that may arise in bile duct drainage, as well as endoscopic solutions The alternatives to endoscopic drainage of the biliary tract will also explained
- ♦ Master biliary cysts and their diagnosis, as well as their endoscopic management
- ♦ Recognize the risk factors that exist for the development of gallbladder cancer and the findings found on echoendoscopy



# 03

# Course Management

For the elaboration of all the theoretical content as well as the clinical and practical cases, TECH has chosen a select group of professionals with great expertise in the management and approach of pancreatic and biliary tract tumors. This gives the program a high level of quality, with contents adapted to the most complex realities that specialists must face on a daily basis.



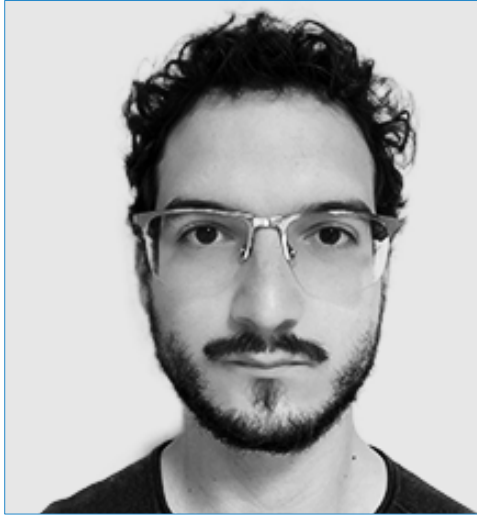




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*This is your best option to incorporate into your daily practice the most modern scientific postulates, offered by professionals of a high international level"*

## Management



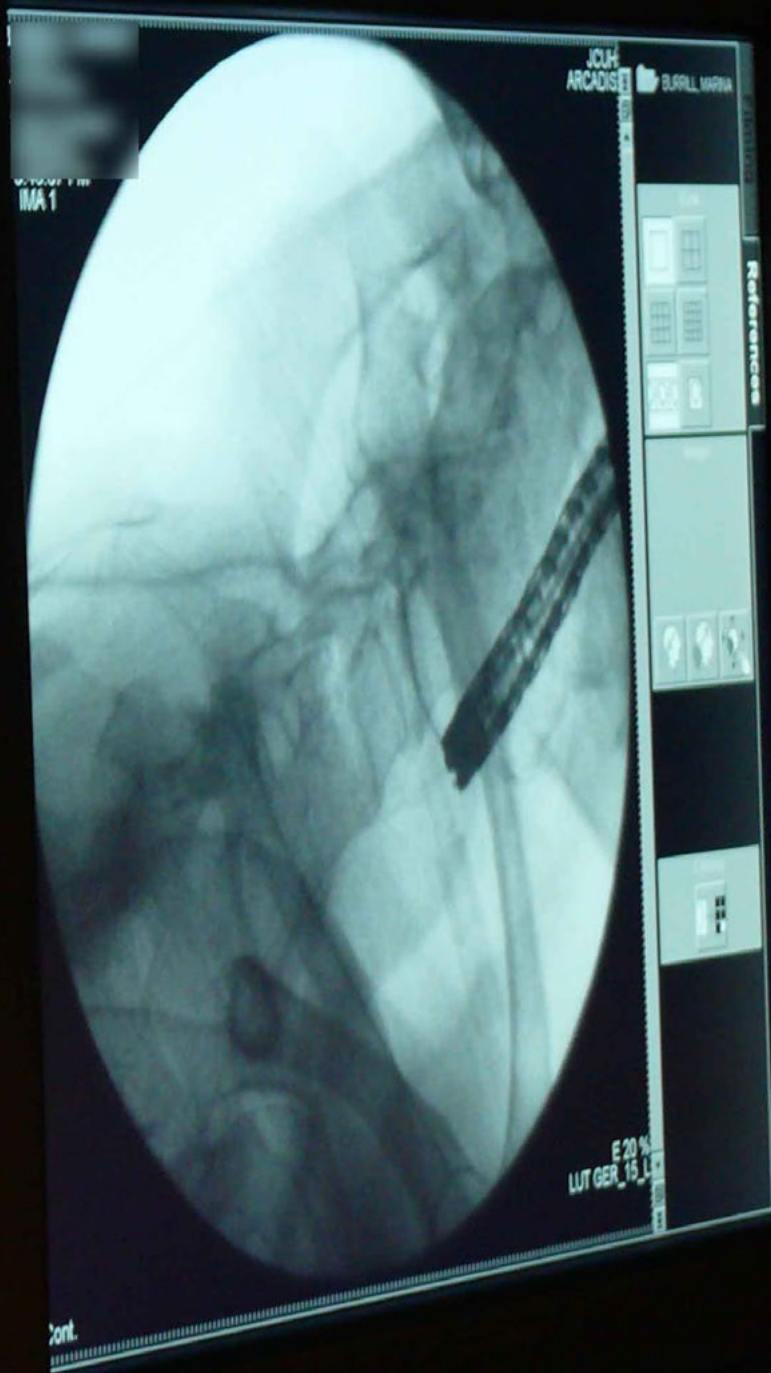
**Dr. Honrubia López, Raúl**

- 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. 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. 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. Agudo Castillo, Belén

- ♦ Digestive System Specialist at the the Puerta de Hierro University Hospital
- ♦ Endocoles clinical training instructor at the Puerta de Hierro Hospital
- ♦ Degree in Medicine from the Complutense University of Madrid
- ♦ Expert in Human Nutrition and Dietetics at the Antonio Nebrija University, European Institute of Business Studies

**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. González Redondo, Guillermo**

- ◆ Digestive System Specialist at the Infanta Sofia University Hospital
- ◆ Member of the interdisciplinary TNE committee at Hospital Infanta Sofía-Hospital Gregorio Marañón
- ◆ Honorary Collaborating Professor at the University of Valladolid
- ◆ Degree in Medicine and Surgery from the University of Valladolid
- ◆ Master's Degree in Pediatric Hepatology at the CEU Cardenal Herrera University
- ◆ Master's Degree in Health Sciences Research, Pharmacology, Neurobiology and Nutrition at the University of Valladolid

**Dr. Fernández Ruiz, Gloria**

- ◆ Specialist Doctor in Gastroenterology at the University Hospital La Paz
- ◆ Clinical teaching collaborator in the Digestive Service of the University Hospital La Paz
- ◆ Degree in Medicine and Surgery from the Complutense University of Madrid
- ◆ Stay at the Academic Medical Centrum Hospital of Amsterdam







**Dr. Álvarez-Nava Torrego, María Teresa**

- ◆ Specialist in the Endoscopy Unit of the Digestive System Service of the University Hospital 12 de Octubre
- ◆ Honorary Collaborator of the Department of Medicine of the Complutense University of Madrid
- ◆ Degree in Medicine from the University of Oviedo
- ◆ Master's Degree for specialization in endoscopic ultrasonography the University of Alcalá de Henares
- ◆ Digestive System Specialist at the University Hospital 12 de Octubre

**Dr. Montiel Portillo, Eliana**

- ◆ Digestive System Specialist at the Infanta Sofía Hospital
- ◆ Member of the Pancreas Unit and of the Biliopancreatic Cancer Committee of the Hospital Infanta Sofía
- ◆ Bachelor of Medicine, cum laude, at the University of Zulia
- ◆ Internship in the Internal Medicine/Emergency Department at Noriega Trigo Hospital
- ◆ Digestive System Specialist at the La Paz University Hospital

**Dr. González-Haba Ruiz, Mariano**

- ◆ Specialist in the Gastroenterology and Hepatology Department of the University Hospital Puerta de Hierro
- ◆ Member of the Interventional Endoscopy Unit of the University Hospital Puerta de Hierro
- ◆ Specialist in the Gastroenterology and Hepatology Service at MD Anderson Cancer Center
- ◆ Doctorate in Medicine from the Autonomous University of Madrid

# 04

## Structure and Content

TECH uses the most advanced educational technology for the writing and development of all its programs. This implies that the specialist will find in this Postgraduate Diploma not only the most advanced knowledge in Oncologic Endoscopy of the Biliary Tract and Pancreas, but also the best way to incorporate these advances in a natural and progressive way to his daily practice. The teaching load is greatly reduced thanks to the support of first class audiovisual content, including clinical and practical cases that contextualize all the teaching.





“ A modern and up to date syllabus,  
with state of the art scientific  
advances that will cover all your  
most demanding professional needs”

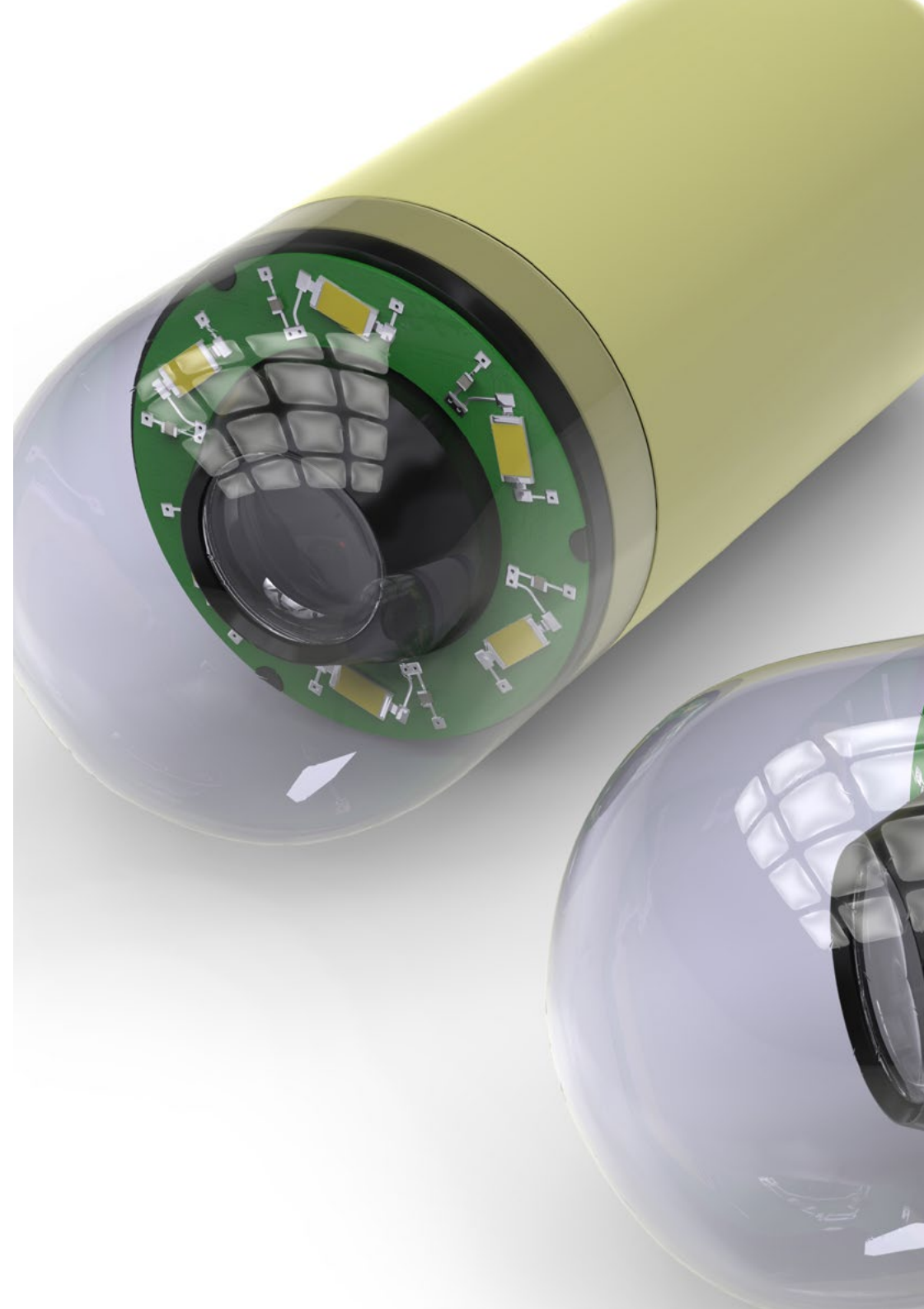


## Module 1. Echoendoscopy and ERCP

- 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. Pancreas

- 2.1. Adenocarcinoma of the Pancreas
  - 2.1.1. Epidemiology, Clinical Presentation, and Risk Factors
  - 2.1.2. Diagnosis and Staging of the Disease: The Role of Echoendoscopy
- 2.2. Endoscopic Management (ERCP/USE) of Bile Duct Obstruction in Pancreatic Cancer
- 2.3. Endoscopic Management of Duodenal Stenosis in Pancreatic Cancer (Gastrojejunal Shunt and Prosthesis)
- 2.4. Echoendoscopy-Guided Treatment Options in Pancreatic Cancer
- 2.5. Pancreatic Cancer Screening by Echoendoscopy
- 2.6. Pancreatic Neuroendocrine Tumors (pNET)
  - 2.6.1. Epidemiological Data, Classification, and Risk Factors
  - 2.6.2. Role of Echoendoscopy in Diagnosis, Staging and Management
  - 2.6.3. Endoscopic treatment
- 2.7. Other Pancreatic Tumors: Inflammatory Mass, Pseudopapillary Neoplasm, Lymphoma
- 2.8. Pancreatic Cystic Tumors
  - 2.8.1. Differential Diagnosis
  - 2.8.2. Serous, Mucinous Cystadenoma and TPMI
- 2.9. Role of Endoscopy (EUS and ERCP) in the Diagnosis and Follow-up of Pancreatic Cystic Lesions
- 2.10. EUS-Guided Treatment of Pancreatic Cystic Lesions



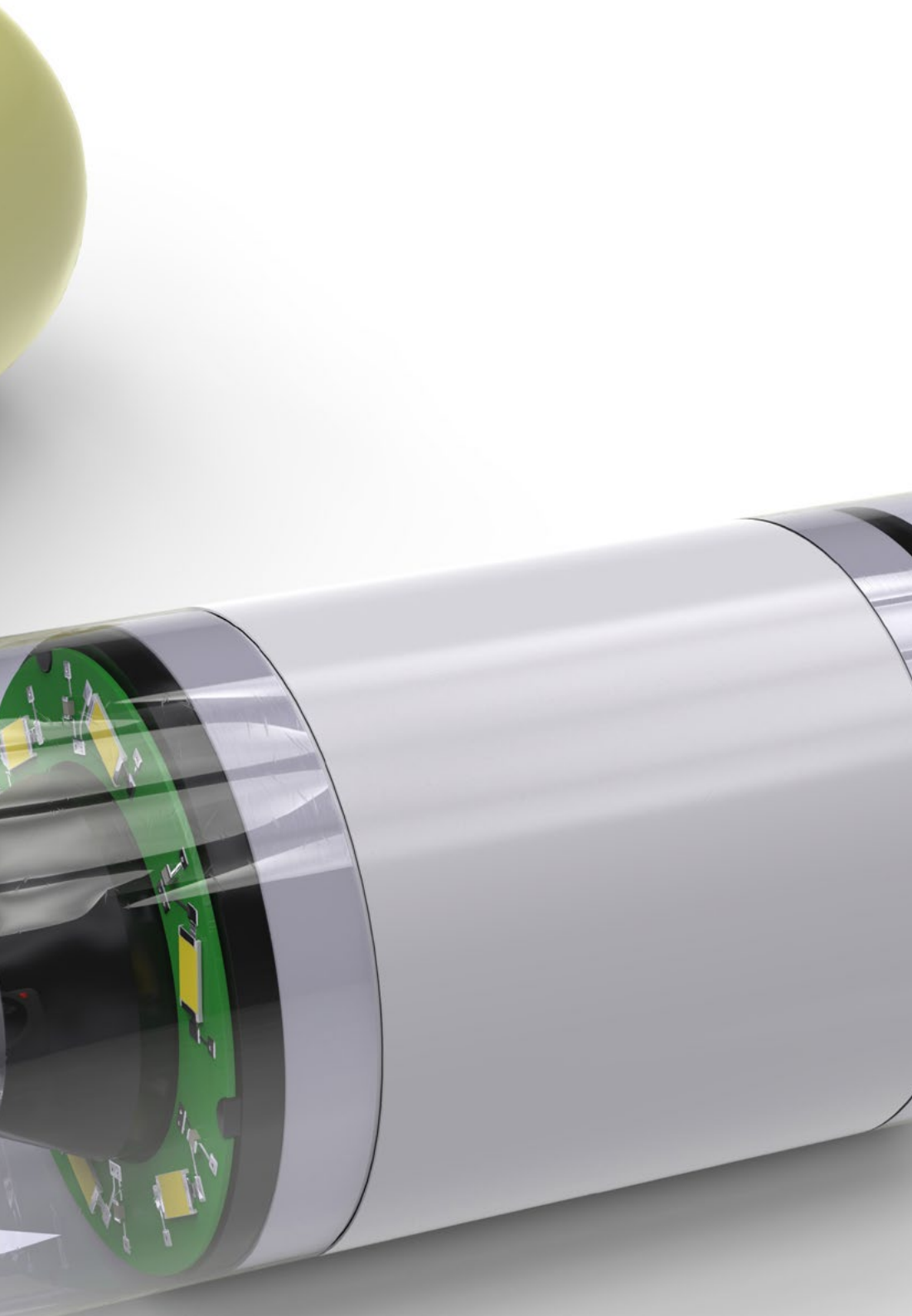


**Module 3. Gallbladder and Bile Duct**

- 3.1. Cholangiocarcinoma
  - 3.1.1. Epidemiology and Risk Factors
- 3.2. Intrahepatic Cholangiocarcinoma
  - 3.2.1. Subtypes and Diagnosis
- 3.3. Extrahepatic cholangiocarcinoma
  - 3.3.1. Clinical Introduction and Diagnosis
- 3.4. Staging of Biliary Tract Tumors, Role of Echoendoscopy
- 3.5. Endoscopic Drainage of the Bile Duct, Role of ERCP
- 3.6. Endoscopic Complications in Bile Duct Drainage
- 3.7. Alternatives to Endoscopic Biliary Drainage by ERCP
- 3.8. Cystic Lesions of the Biliary Tract
  - 3.8.1. Types of Biliary Cysts
  - 3.8.2. Diagnosis and Treatment of Biliary Cystic Lesions
- 3.9. Gallbladder Carcinoma
  - 3.9.1. Risk Factors
  - 3.9.2. Ultrasound Endoscopy as a Diagnostic Tool



*You will be able to download the entire syllabus from day one, so you can study it at your convenience, without sacrificing your personal life or professional work"*



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 Oncologic Endoscopy of Biliary Tract and Pancreas guarantees, in addition to the most rigorous and up to date training, access to a Postgraduate Diploma issued by TECH Technological University.







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*Successfully complete this training program and receive your certificate without travel or laborious paperwork”*

The **Postgraduate Diploma in Oncologic Endoscopy of Biliary Tract and Pancreas** 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 Diploma 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 from career evaluation committees.

**Title: Postgraduate Diploma in Oncologic Endoscopy of Biliary Tract and Pancreas**  
Official N° of hours: **450 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  
online training  
development languages  
virtual classroom



**Postgraduate Diploma**  
Oncologic Endoscopy of  
Biliary Tract and Pancreas

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

# Postgraduate Diploma

## Oncologic Endoscopy of Biliary Tract and Pancreas

