Postgraduate Diploma Colorectal Surgery



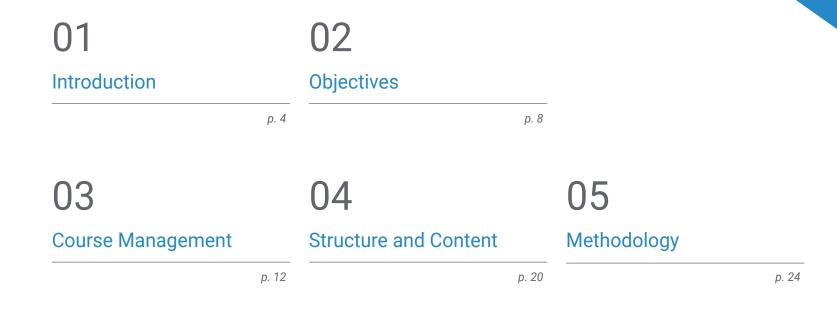


## Postgraduate Diploma Colorectal Surgery

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

Website: www.techtitute.com/pk/medicine/postgraduate-diploma/postgraduate-diploma-colorectal-surgery

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## 01 Introduction

In recent years, Colorectal Surgery has evolved significantly. The continuous advances in coloproctological procedures make constant training of the specialist necessary. This program is designed to facilitate the update in these advances through the latest educational technology, so that they can develop the surgical practice with quality and safety, improving the prognosis of patients.

The new scenarios push us to propose new specialization programs that meet the real needs of the most experienced professionals, so that they can incorporate the advances that occur in surgical practice in colorectal pathology"

## tech 06 | Introduction

Colon cancer is the second most frequent neoplasm in both men and women, followed by lung and breast cancer, respectively, and with a mortality of diagnosed individuals close to 50%. Surgery is the only curative treatment currently available, the technique and procedure chosen depending on the location, degree of local invasion and/or existence of distant metastases. Adjuvant chemotherapy is administered with the aim of eradicating micrometastatic disease and thereby increasing disease-free survival and overall survival.

On the other hand, rectal surgery includes the treatment of rectal cancer and other pathologies such as rectal prolapse, rectocele or deep pelvic endometriosis. There are four goals in the treatment of rectal cancer: cure, local control of the disease, restoration of bowel continuity and preservation of urinary, sexual and anal sphincter function, the main treatment modality being surgical resection.

Modern surgery implies a constant need for recycling, but the speed at which changes and advances in techniques and procedures occur, and the amount of scientific documentation published every week on new treatments, make it almost impossible for a specialist to reconcile his updating with his daily clinical and surgical practice.

The purpose of this Postgraduate Diploma in Colorectal Surgery and the team of experts who have developed it, is to provide this update in a practical way, the latest surgical techniques, through the latest educational technology in the field of colorectal surgery.

This **Postgraduate Diploma in Colorectal Surgery** contains the most complete and upto-date scientific program on the market. The most important features of the program include:

- Contains cinical cases presented by experts. 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.
- Diagnostic and therapeutic developments in the care of patients with colorectal problems.
- Presentation of practical workshops on procedures, diagnostic and therapeutic techniques for diseases of the colon, anus and the rest of the body, and guidelines for action in coloproctological processes.
- Video lessons on the different pathologies and their approach.
- Algorithm-based interactive learning system for decision-making in the presented clinical situations.
- Theoretical lessons, questions to the expert, debate forums on controversial topics, and individual reflection assignments.
- Availability of the contents from any fixed or portable device with internet connection.

Scientific evidence increases the quality of medical care. Staying up-to-date is key to providing better care for patients with colorectal problems"

### Introduction | 07 tech



This Postgraduate Diploma may be the best investment you can make in the selection of a refresher program for two reasons: in addition to updating your knowledge in care to patients with Colorectal pathology, you will obtain a Postgraduate Diploma from TECH Technological University"

Its teaching staff includes leading surgeons, who bring to this training the experience of their work, in addition to other specialists belonging to prestigious 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 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 during the course. This will be done with the help of an innovative interactive video system developed by renowned experts in colorectal surgery, with extensive teaching experience. Increase your decision-making confidence by updating your knowledge with this Specialist Diploma course.

Don't miss the opportunity to update your knowledge in the care of patients with Colorectal pathology to increase the quality of daily Surgical care.

## 02 **Objectives**

The Postgraduate Diploma program is oriented towards a review of the main aspects of the current management of patients with colorectal pathology, based on scientific evidence and the experience of renowned professionals in the field of critical care.

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This training will provide you with a sense of security in medical practice, which will help you grow personally and professionally"

## tech 10 | Objectives



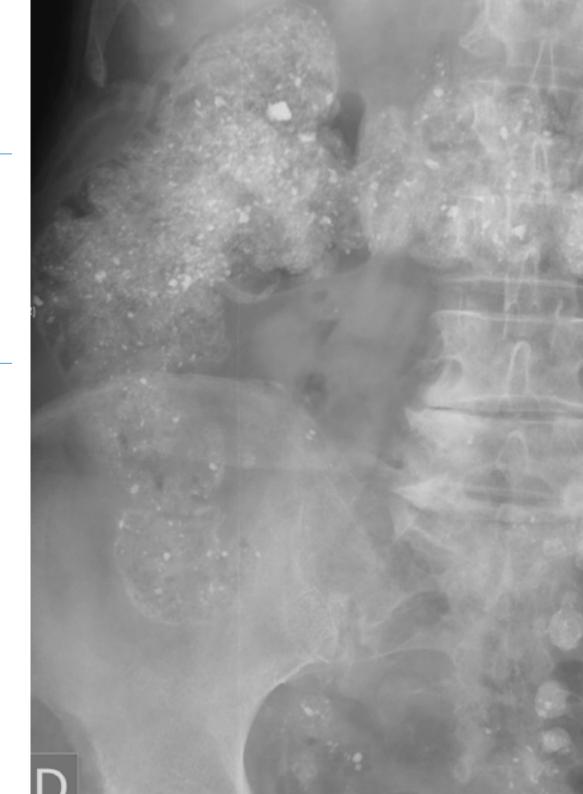
### General Objective

• Update the most frequent procedures and techniques in colorectal, anal and inflammatory bowel disease surgery, in order to incorporate the latest advances in daily surgical practice.



### Specific Objectives

- Review the principles of colon oncologic surgery.
- Establish the differential characteristics in the approach to right, left and transverse colon cancer.
- Update therapeutic procedures in medical oncology and radiotherapy in colon cancer.
- Describe the principles of rectal cancer surgery.
- Describe the characteristics, similarities and differences in the abdominal, transanal and combined approaches in rectal cancer surgery.
- Incorporate the latest advances in the surgical approach to rectal prolapse and rectocele.
- Explain the new surgical procedures in the treatment of deep pelvic endometriosis.
- Describe the surgical technique in the management of hemorrhoids.
- Develop by steps the surgical procedure in the treatment of anal fissures.
- Determine what is new in the surgical approach to anal fistulas and abscesses.
- Describe the surgical approach to pilonidal sinus and hydrosadenitis.





## Objectives | 11 tech

- Point out the indications of the surgical approach in the treatment of anal incontinence.
- Point out the importance of anal HPV in the incidence of anal intraepithelial neoplasia and anal squamous cell carcinoma.
- Establish the principles of inflammatory bowel disease.
- Incorporate the latest advances in the surgical approach to Crohn's disease.
- Describe the surgical process of ulcerative colitis.
- Describe innovations in general and digestive system surgery: in surgical learning, in surgical devices, in NOTES surgery, and in Cell Therapy and Surgery.
- Point out the role of Information and Communication Technologies applied to surgery.
- Explain the indications and importance of robotic surgery.
- Address the features of financing, protection, and transfer of innovation in surgery.

## 04 Course Management

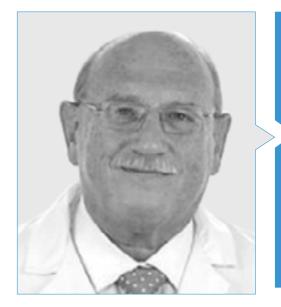
The program includes in its teaching staff surgeons of reference in the care of patients with colorectal pathology, who bring their experience to this training. Additionally, other recognized specialists participate in its design and preparation, which means that the program is developed in an interdisciplinary manner.

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Learn from leading professionals the latest advances in the surgical approach to patients with colorectal pathology"

## tech 14 | Course Management

#### Management



#### Dr. Díaz Domínguez, Joaquín

#### In Memoriam

"Dr. Joaquín Díaz Domínguez was at the head of this program in its numerous editions, leading the teaching team, collaborating intensively, and going out of his way to continue spreading his knowledge of medicine and surgery to everyone that has had the opportunity to participate in this program.

From Tech University we want to pay a heartfelt tribute full of affection and gratitude for his dedication and commitment during these years, always lending himself to others and sharing his experience unconditionally, to contribute to continue saving lives and caring for people who have needed it most. Thank you very much, Joaquín."



#### Dr. Pascual Migueláñez, Isabel

- · Degree in Medicine from the Autonomous University Madrid
- Doctorate from the Autonomous University of Madrid with the thesis "Use of sutures coated with stem cells (biosutures) in colic anastomoses. An experimental study in rats" with the qualification "Outstanding cum laude".
- Resident Doctor from the MIR program in General and Digestive System Surgery at La Paz University Hospital. Madrid
- Specialist in General and Digestive System Surgery at the Infanta Sofía University Hospital, San Sebastián de los Reyes, Madrid. Hepatobiliopancreatic Surgery Unit
- \* Specialist in General and Digestive System Surgery at La Paz University Hospital, Madrid. Colorectal Surgery Unit

### Course Management | 15 tech

#### Management



#### Dr. Álvarez Gallego, Mario

- Degree in Medicine and Surgery from the University of Alcalá de Henares
- Diploma of Advanced Studies (DAS): "Use of mesenchymal stem cells to prevent the formation of intra-abdominal adhesions". Autonomous University of Madrid. Surgery Department. Grade. Oustanding, Cum Laude
- · Residency in General and Digestive System Surgery at La Paz University Hospital, Madrid.
- Specialist in General and Digestive System Surgery, Colorectal Surgery Unit, Infanta Sofía Hospital.
- Specialist in General and Digestive System Surgery at the Infanta Cristina Hospital, Parla, Madrid.
- Specialist in General and Digestive System Surgery, Colorectal Surgery Unit, La Paz Hospital, Madrid.
- Rotations: General and Digestive System Surgery Service, Son Llátzer Hospital, Palma de Mallorca; Abdominal Organ Transplant Unit, 12 de Octubre Hospital, Madrid; Polytraumatized Patient Unit, Los Angeles County Hospital, University of Southern California (USC), Los Angeles, California, USA.
- · Member of the Innovation Platform of La Paz Hospital (Idipaz).
- Patent: "Insufflation and suction assisted surgical specimen removal device". Ownership: FIBHULP. Inventor: Mario Álvarez Gallego. Spanish patent: P201031490. Application for international protection PCT/ ES2011/002357

#### Professors

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#### Sánchez Simón, Estela.

• Lawyer and Innovation and Knowledge Transfer Manager at the Innovation Support Unit of the Health Research- of the La Paz University Hospital (IdiPAZ). Madrid.

#### Tejedor Botello, Marisa.

• Economist La Paz University Hospital-Institute for Biomedical Research of La Paz Hospital (IdiPAZ) of Madrid, as a member of the Innovation Support Unit.

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## 05 Structure and Content

The structure of the contents has been designed by a team of specialists knowledgeable about the implications of training in the surgical practice of colon, rectum and anus pathology, aware of the relevance of current specialization in order to be able to act before the patient with colorectal problems and committed to quality teaching through new educational technologies.

This Postgraduate Diploma in Colorectal Surgery contains the most complete and up-to-date scientific program on the market"

## tech 22 | Structure and Content

#### Module 1. Colon Surgery

- 1.1. Principles of Colon Cancer Surgery
- 1.2. Right Hemicolectomy
- 1.3. Left Colon Cancer
- 1.4. Transverse Colon Cancer
- 1.5. Medical and Radiotherapy Oncology in Colon Cancer

#### Module 2. Rectal Surgery

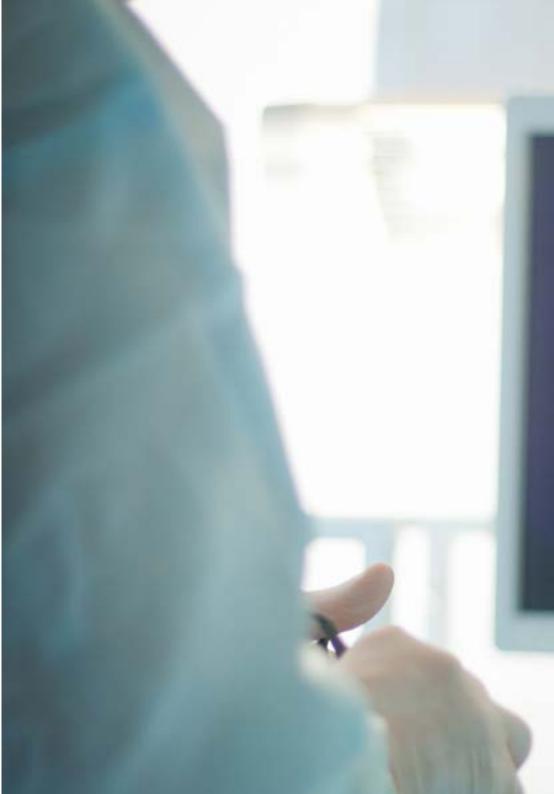
- 2.1. Principles of Rectal Cancer Surgery
- 2.2. Abdominal Approach to Rectal Cancer Surgery
- 2.3. Transanal Approach to Rectal Cancer Surgery
- 2.4. Combined Approach to Rectal Cancer Surgery
- 2.5. Comprehensive Oncologic Treatment for Rectal Cancer
- 2.6. Anatomopathological Considerations in Rectal Cancer
- 2.7. Rectal Prolapse and Rectocele
- 2.8. Deep Pelvic Endometriosis

#### Module 3. Anal Surgery

- 3.1. Anal Fissure
- 3.2. Anal Fistula and Abscess
- 3.3. Anal HPV: Anal Intraepithelial Neoplasia and Epidermoid Carcinoma
- 3.4. Anal Cancer
- 3.5. Hemorrhoids
- 3.6. Anal Incontinence
- 3.7. Pilonidal Sinus and Sepurative Hydrosadenitis

#### Module 4. Surgical Innovation

- 4.1. Introduction to Surgical Innovation
- 4.2. Innovation in Surgical Learning
- 4.3. ICT
- 4.4. Innovation in Surgical Devices
- 4.5. Innovation in NOTES Surgery
- 4.6. Robotic Surgery
- 4.7. Financing, Protection, and Transfer of Innovation in Surgery



### Structure and Content | 23 tech



A unique, key and decisive training experience to boos training experience to boost your professional development"

## 05 **Methodology**

This training program provides you with a different way of learning. Our methodology uses a cyclical learning approach: *Re-learning*.

This teaching system is used in the most prestigious medical schools in the world and has been considered one of the most effective by major publications such as **the** *New England Journal of Medicine*.



Discover Re-learning, 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"

## tech 26 | Methodology

#### At TECH we use the Case Method

In a given situation, what would you do? Throughout the program, you will be presented with multiple simulated clinical cases based on real patients, where you will have to investigate, establish hypotheses and, finally, resolve the situation. There is abundant scientific evidence on the effectiveness of the method. Specialists learn better, faster, and more sustainably over time.

With TECH you can 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 potential 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 professional medical practice.

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 grasp concepts, but also develop their mental capacity by evaluating real situations and applying their knowledge.

2. The learning process has a clear focus on 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.

 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.



## tech 28 | Methodology

#### **Re-Learning Methodology**

At TECH we enhance the Harvard case method with the best 100% online teaching methodology available: Re-learning.

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.

The physician 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.



### Methodology | 29 tech

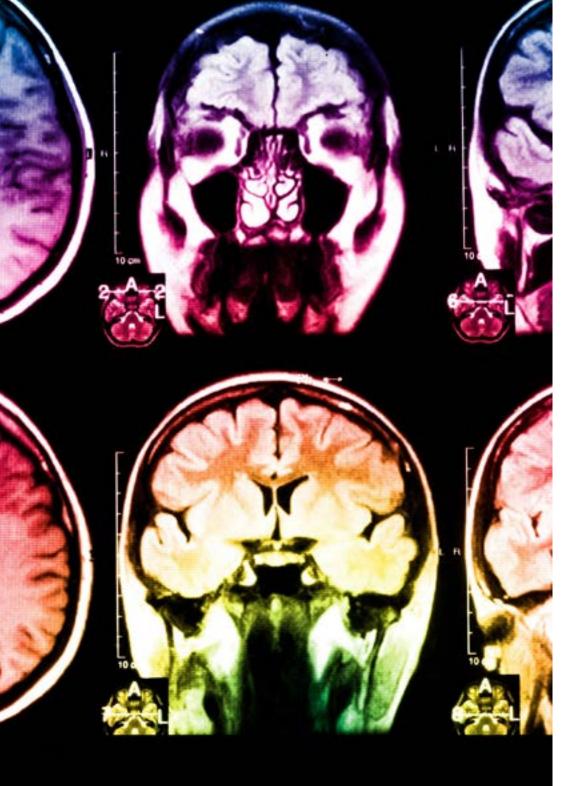
At the forefront of world teaching, the Re-learning method has managed to improve the overall satisfaction levels of professionals who complete their studies, with respect to the quality indicators of the best Spanish-speaking online university (Columbia University).

With this methodology we have trained more than 250,000 physicians with unprecedented success, in all clinical specialties regardless of the surgical load. All this in a highly demanding environment, where the students have a strong socioeconomic profile and an average age of 43.5 years.

Re-learning 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 (we learn, unlearn, forget, and re-learn). Therefore, we combine each of these elements concentrically.

The overall score obtained by our learning system is 8.01, according to the highest international standards.



## tech 30 | Methodology

In this program you will have access to the best educational material, prepared with you 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.

20%

15%

3%

15%

This content is then adapted in an audiovisual format that will create our way of working online, with the latest techniques that allow us to offer you high quality in all of the material that we provide you with.



#### Latest Techniques and Procedures on Video

We introduce you to the latest techniques, to the latest educational advances, to the forefront of current medical techniques. All this, in first person, with the maximum rigor, explained and detailed for your assimilation and understanding. And best of all, you can watch them as many times as you want.



#### **Interactive Summaries**

We present 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, international guides. in our virtual library you will have access to everything you need to complete your training.



#### **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.

20%

7%

3%

17%



#### **Testing & Re-testing**

We periodically evaluate and re-evaluate your knowledge throughout the program, through assessment and self-assessment activities and exercises: so that you can see how you are achieving your goals.



#### Classes

There is scientific evidence suggesting that observing third-party experts can be useful.

Learning from an expert strengthens knowledge and memory, and generates confidence in our future difficult decisions.



#### **Quick Action Guides**

We offer you the most relevant contents of the course in the form of worksheets or quick action guides. A synthetic, practical, and effective way to help you progress in your learning.

## 06 **Certificate**

The **Postgraduate Diploma in Colorectal Surgery** guarantees you, in addition to the most rigorous and up-to-date specialization, access to a Postgraduate Diploma Certificate issued by **TECH Technological University**.





Successfully complete this specialization and receive your university diploma without travel or laborious paperwork"

## tech 34 | Certificate

This **Postgraduate Diploma in Colorectal Surgery** contains the most complete and upto-date scientific program on the market.

After the student has passed the evaluations, they will receive by mail with acknowledgement of receipt their corresponding **Postgraduate Diploma Certificate** issued by **TECH Technological University**.

The certificate issued by **TECH Technological University** will specify the qualification obtained though the Postgraduate Diploma, and meets the requirements commonly demanded by labor exchanges, competitive examinations, and professional career evaluation committees.

Title: Postgraduate Diploma in Colorectal Surgery

Official Number of Hours: 625



\*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.

# technological university Postgraduate Diploma Colorectal Surgery » Modality: online » Duration: 6 months » Certificate: TECH Technological University » Dedication: 16h/week » Schedule: at your own pace » Exams: online

Postgraduate Diploma Colorectal Surgery

