



Postgraduate Diploma

Laparoscopic and Pelvitrainer Learning Models

» Modality: online

» Duration: 6 months

» Certificate: TECH Global University

» Accreditation: 17 ECTS

» Schedule: at your own pace

» Exams: online

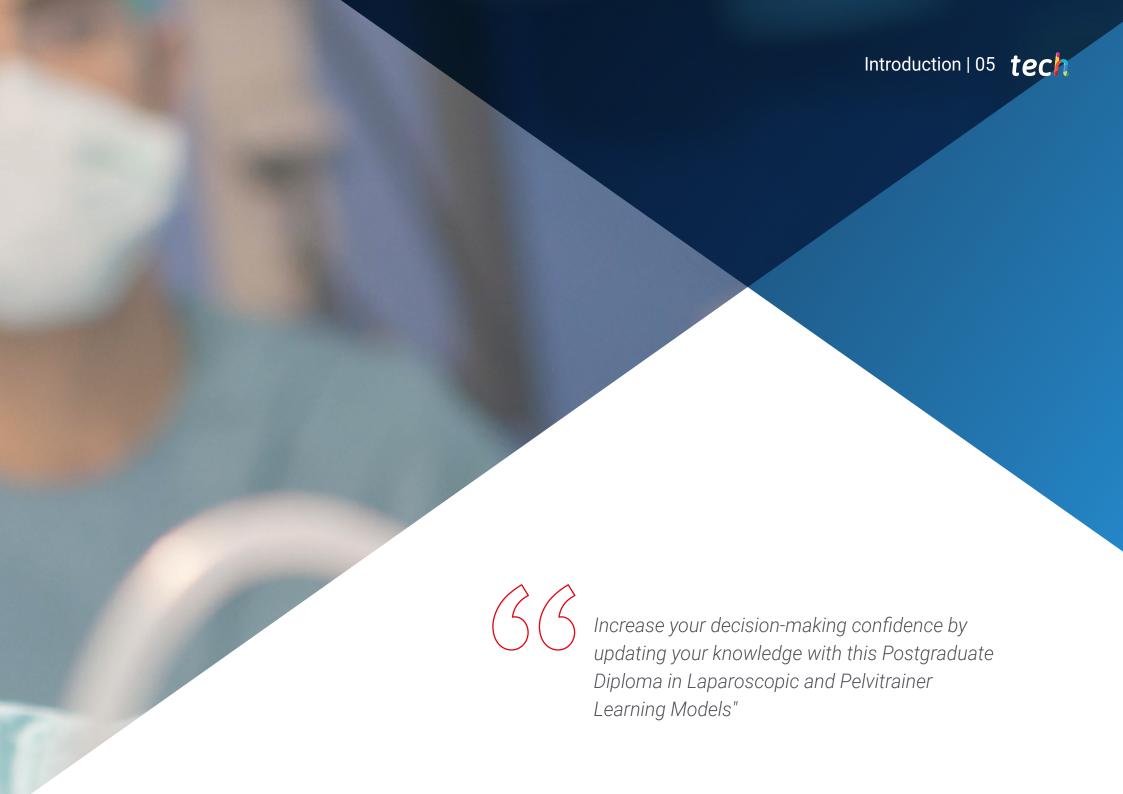
Website: www.techtitute.com/us/medicine/postgraduate-diploma/postgraduate-diploma-laparoscopic-pelvitrainer-learning-models

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tech 06 | Introduction

From the clinical point of view, laparoscopic and pelvitrainer surgery in gynecology is gaining ground and displacing conventional surgery to a second place. For this reason, most healthcare centers are trying to introduce this type of surgical modality in a higher percentage.

With the increasing complexity of the procedures performed laparoscopically, it has reached a point where it covers practically 95% of gynecologic surgical interventions. By performing these surgeries in a minimally invasive manner, operation results and patient recovery are optimized, which is why updating on new techniques is vital for proper patient care.

That is why the demand for qualified professionals in this area is increasing. As a consequence, TECH has designed this program in order to provide first class information, developed by experts and specialists with extensive experience. All this presented in an innovative online format, full of audiovisual resources, complementary readings and practical exercises. This Postgraduate Diploma is also based on the *Relarning* methodology, based on practical learning and leaving behind the hours of unproductive study and memorization.

This **Postgraduate Diploma in Laparoscopic and Pelvitrainer Learning Models** contains the most complete and up-to-date scientific program on the market. The most important features include:

- Activities and clinical cases presented by experts in the different specialties
- The graphic, schematic, and practical contents with which they are created, provide scientific and healthcare training on the disciplines that are essential to professional practice
- The latest developments in Laparoscopic and Pelvitrainer Learning Models
- An algorithm-based interactive learning system for decision-making in the clinical situations presented throughout the course
- With special emphasis on evidence-based medicine and research methodologies in Laparoscopic and Pelvitrainer Learning Models
- All of this will be complemented by theoretical lessons, questions to the expert, debate forums on controversial topics, and individual reflection assignments
- Content that is accessible from any fixed or portable device with an Internet connection



Expand your knowledge through the Postgraduate Diploma in Laparoscopic and Pelvitrainer Learning Models in a practical way and adapted to your needs"



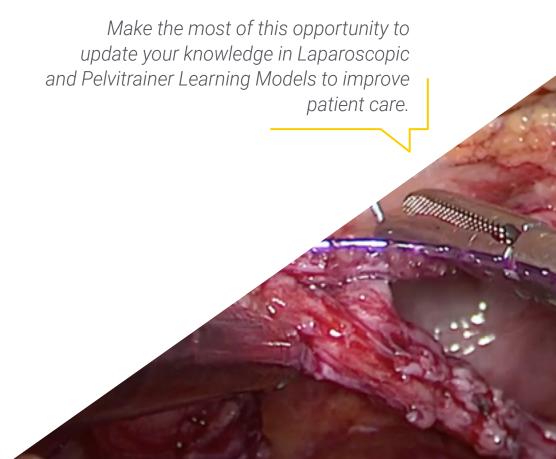
This Postgraduate Diploma is the best investment you can make when selecting a refresher program for two reasons: in addition to updating your knowledge in Laparoscopic and Pelvitrainer Learning Models, you will obtain a certificate issued by TECH Global University"

The teaching staff is made up of a group of professionals from the area of laparoscopic training using *Pelvitrainer*, who bring to this course their work experience, as well as a group of renowned specialists, recognized by esteemed scientific communities.

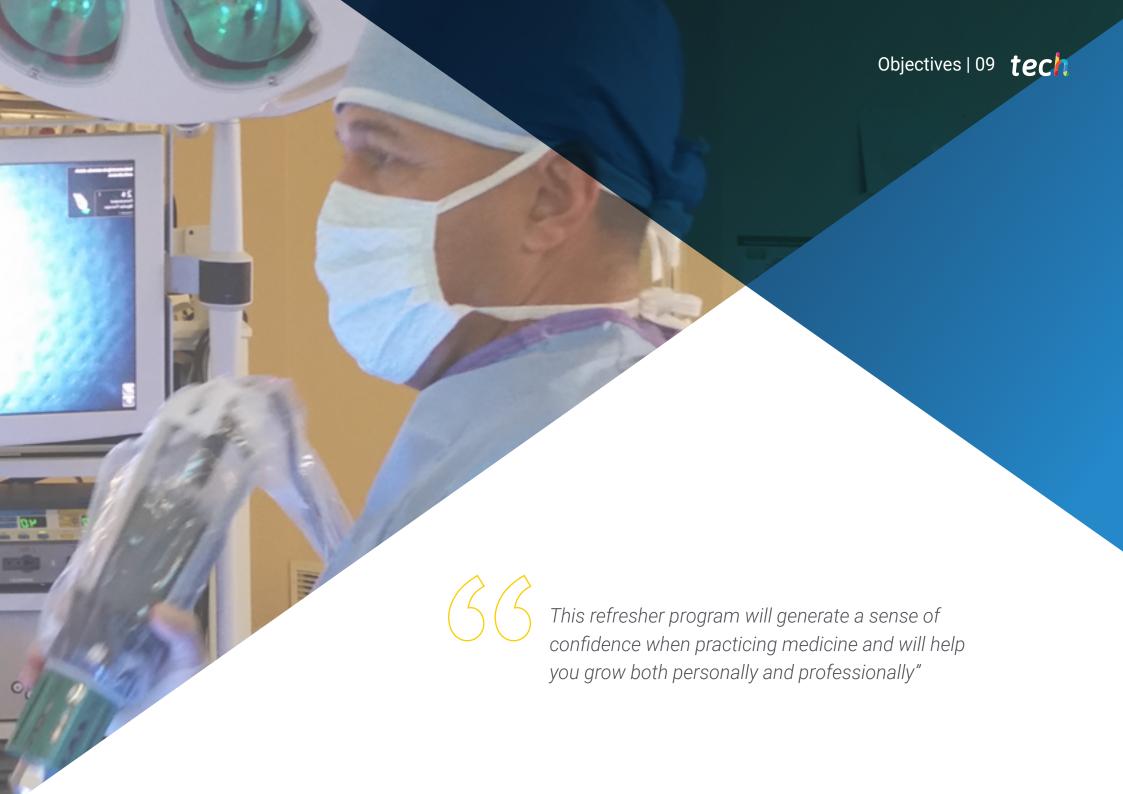
Thanks to its multimedia content developed with the latest educational technology, it will allow the professional a situated and contextual learning, that is to say, a simulated environment that will provide an immersive learning programmed to prepare in real situations.

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

This Postgraduate Diploma in Laparoscopic and Pelvitrainer Learning Models contains the most complete and up-to-date scientific program on the market.





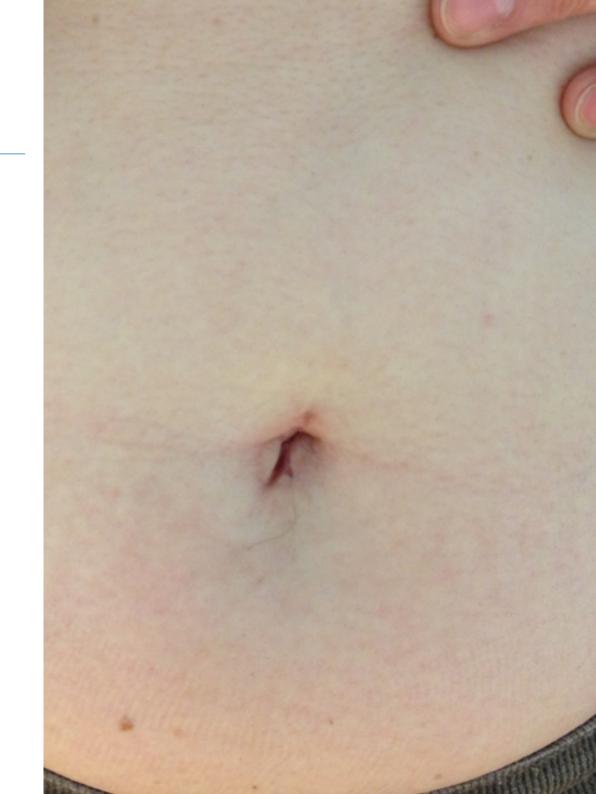


tech 10 | Objectives



General Objectives

- Know all the instruments available to perform endoscopic and hysteroscopic surgery
- Know how to prepare endoscopic operating rooms
- Learn about general aspects such as ergonomics in the laparoscopic and electrosurgical operating rooms to be used in gynecological procedures
- Apply different appropriate techniques in each specific clinical case
- Gain detailed knowledge of female pelvic and abdominal anatomy
- Learn hysteroscopic techniques and their application in uterine pathology
- Establish a series of alternatives to manage benign ovarian pathology
- Know how to treat benign uterus pathology
- Learn techniques to resolve pelvic floor problems using laparoscopy
- Apply minimally invasive mesh placement
- Learn the to endoscopically manage endometriosis
- Learn different advanced techniques in gynecologic oncology for minimally invasive treatments
- Provide tools to resolve complications in gynecologic endoscopy





Module 1. Minimally Invasive Surgery

- Delve into the history of laparoscopy
- Gain a deeper understanding of how to prepare the endoscopic operating room
- Know the correct postural factors and ergonomics
- Approach the management of patients pre- and post-operatively
- Know the details of conventional laparoscopic operating rooms
- Determine the anesthetic and recovery details of patients
- Learn Fast-Track postoperative management and the ERAS protocol
- Describe the main features irrigation and suction systems

Module 2. Instrumentation, Materials and Electrosurgery

- Manage the preparation of the surgical site before each operation
- Establish skin cleansing and asepsis
- Learn how to position patients on the operating table
- Learn the peculiarities of integrated operating rooms
- Increase knowledge of anesthetic aspects related to endoscopy
- Learn the different applications of bipolar and monopolar energy in instrumentation
- * Acquire information about electrosurgery for its use in clinical practice
- Select morcellation instruments and apply them safely
- Describe the main features of specimen extraction bags
- Determine the types and use of tissue sealants

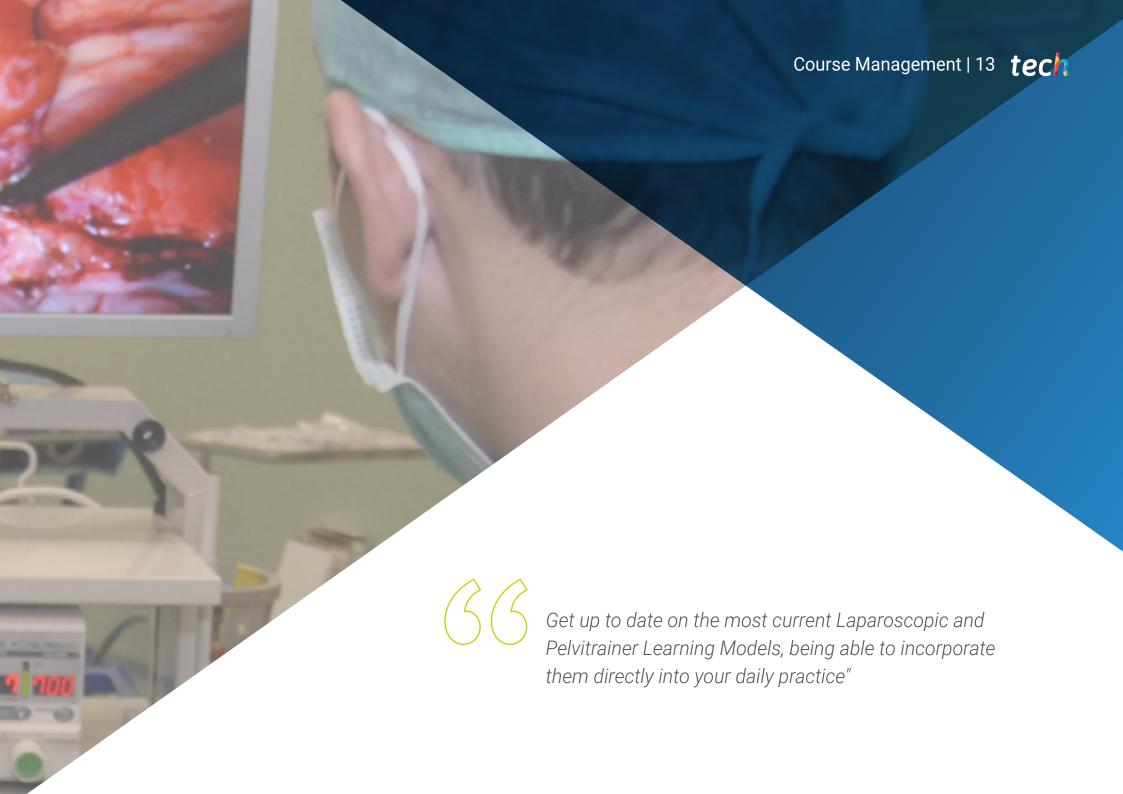
Module 3. General Training in Minimally Invasive Surgery

- Identify dissection and cutting instruments for laparoscopy and the use of each piece of equipment
- Select the correct optics for each specific patient
- Differentiate between entry trocars used in surgeries
- Perform pelvitrainer simulation exercises
- Learn how to assemble a homemade pelvitrainer
- Explain the use of learning pyramids
- Identify the types of laparoscopic simulators
- * Acquire up-to-date knowledge of animal simulation procedures
- Bring new advances to cadaver simulation procedures
- Apply simulated organ models
- * Acquire up-to-date knowledge of simple laparoscopic suturing procedures

Module 4. Laparoscopic Suture Training

- Explore all the material for laparoscopic suturing, including suture holders, suture threads, needles and other instruments
- Give a detailed description of all the accessory material for gynecological laparoscopy
- Distinguish the types of recorders available for surgery
- Acquire up-to-date knowledge of the orientation of laparoscopic vision systems
- Identify the types of insufflators and how they work
- Identify general surgical instruments





International Guest Director

As one of the pioneer surgeons in Brazil by introducing advanced techniques of Laparoscopic Oncologic Surgeryin Paraná, Dr. Reitan Ribeiro is one of the most prolific experts in this specialty. So much so that he has even received recognition as an honorary citizen of the city of Curitiba, highlighting his work in the creation and development of the technique of Uterine Transposition.

The IJGC, International Journal of Gynecologic Cancer, has also recognized the outstanding work of Dr. Reitan Ribeiro. His publications on Uterine Robotic Transposition in Cervical Cancer, Uterine Transposition after Radical Trachelectomy and directed research in the technique of Uterine Transposition for patients with gynecological cancers who want to preserve fertility are highlighted. He has received the National Award for Medical Innovation for his research in the field of Uterine Transposition, highlighting these advances in the preservation of the patient's fertility.

His professional career is not without success, as he holds numerous positions of responsibility in the prestigious Erasto Gaertner Hospital. **He** directs the research program in **Gynecologic**Oncology of this center, being also director of the Fellowship program in this specialty, in addition to coordinating the training program in**Robotic Surgery** focused on **Gynecologic**Oncology.

At the academic level, he has completed internships at numerous prestigious centers, including Memorial Sloan Kettering Cancer Center, McGuill University and the National Cancer Institute of Brazil. He balances his clinical responsibilities with consulting work for leading medical and pharmaceutical companies, mainly Johnson & Johnson and Merck Sharp & Dohme.



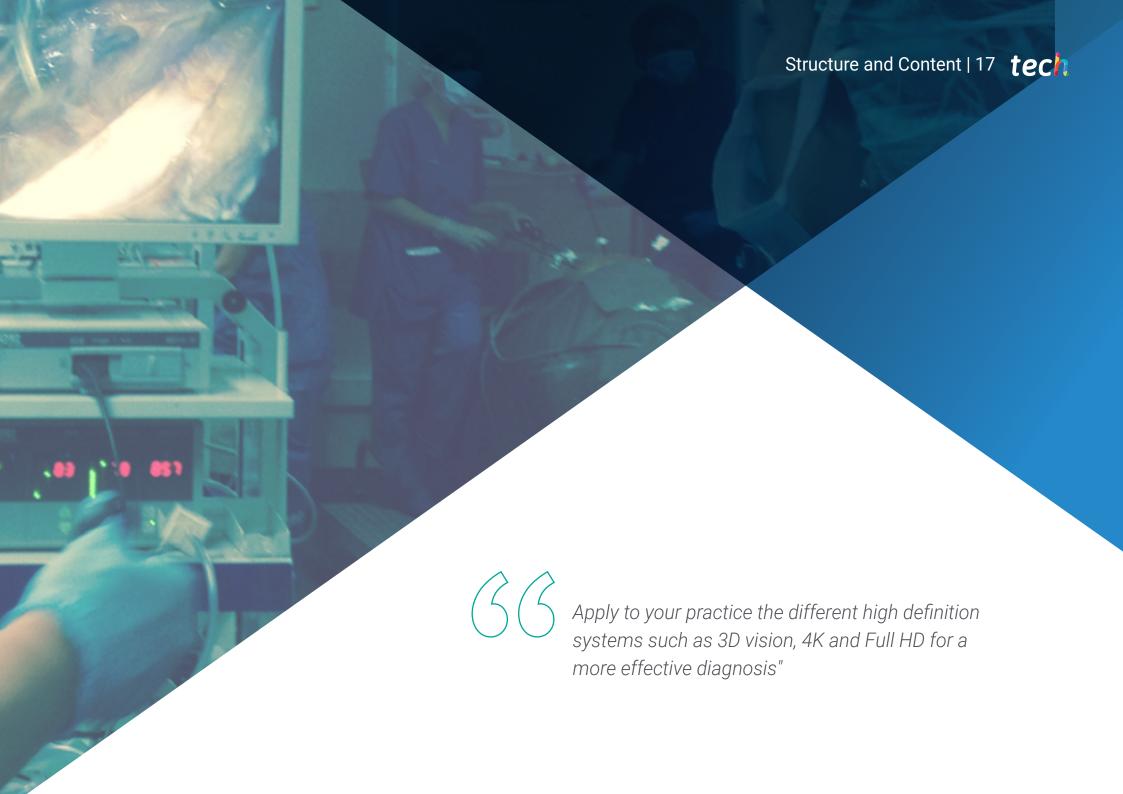
Dr. Ribeiro, Reitan

- Director of Research, Department of Gynecologic Oncology, Erasto Gaertner Hospital, Curitiba, Brazil
- Director of the Fellowship Program in Gynecologic Oncology, Erasto Gaertner Hospital
- Director of the Robotic Surgery Training Program, Department of Gynecologic Oncology, Erasto Gaertner Hospital
- Senior Surgeon in the Department of Gynecologic Oncology, Erastus Gaertner Hospital
- Director of the Resident Oncologist Program, Erasto Gaertner Hospital
- Consultant at Johnson & Johnson and Merck Sharp & Dohme
- Degree in Medicine at the Federal University of Health Sciences of Porto Alegre
- Fellowship in Gynecologic Oncologic Surgery, Memorial Sloan Kettering Cancer Center
- Fellowship in Minimally Invasive Surgery, McGuill University

- Internships at Governador Celso Ramos Hospital, National Cancer Institute of Brazil and Erasto Gaertner Hospital
- Certification in Oncologic Surgery by the Oncologic Surgery Society of Brazil



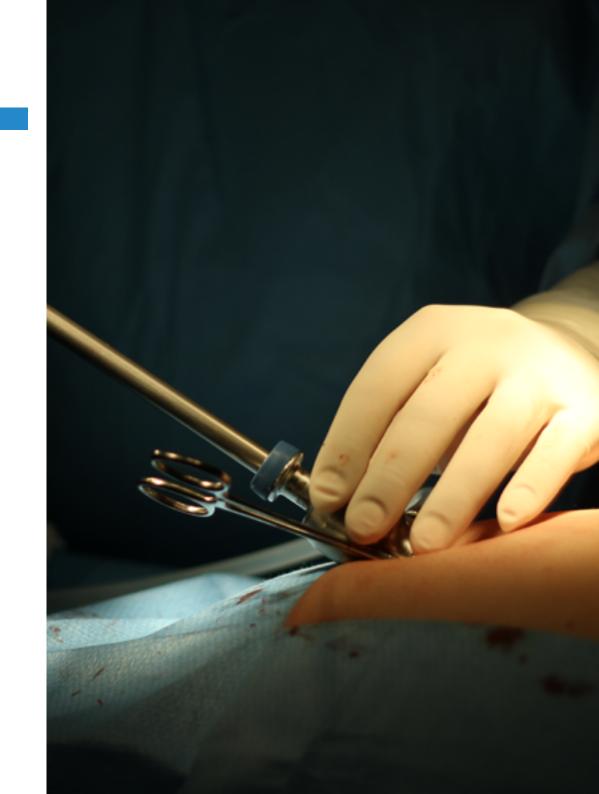




tech 18 | Structure and Content

Module 1. Minimally Invasive Surgery

- 1.1. General Introduction
- 1.2. History of Laparoscopy
- 1.3. Introduction to Hysteroscopic Surgery
- 1.4. Ergonomics in Laparoscopy
- 1.5. Asepsis and Antisepsis
 - 1.5.1. Hand Washing
 - 1.5.2. Preparing Instrumentation. Sterilization.
 - 1.5.3. Preparing the Surgical Field
 - 1.5.3.1. Skin Cleansing
 - 1.5.3.2. Proper Cloth Placement
- 1.6. Laparoscopic Operating Room
 - 1.6.1. Conventional Operating Rooms
 - 1.6.2. Integrated Operating Rooms
 - 1.6.3. Future Perspectives
- 1.7. Preoperative Preparation for Laparoscopy
 - 1.7.1. Physical Preparation for Patients
 - 1.7.2. Preoperative Medication and Bowel Preparation
 - 1.7.3. Patient Position on the Operating Table
- 1.8. Fast-Track/ ERAS Program
- 1.9. Anesthetic Considerations in Endoscopic Surgery
 - 1.9.1. General Aspects
 - 1.9.2. Circulatory System Involvement
 - 1.9.3. Respiratory System Involvement
 - 1.9.4. Spinal Catheter Placement and Other Blockages
 - 1.9.5. Postoperative Recovery



Module 2. Instrumentation, Materials and Electrosurgery

- 2.1. Laparoscopy Tower and General Supplies
- 2.2. Specific Vision Systems
 - 2.2.1. Full HD High Definition Systems
 - 2.2.2. 3D Vision Systems
 - 2.2.3. 4K Vision Systems
- 2.3. Endoscopy
 - 2.3.1. Rigid Endoscopy
 - 2.3.2. Flexible and Angle Adjustable Endoscopes
 - 2.3.3. Small Bore Endoscopes
- 2.4. Insufflation Systems
 - 2.4.1. General Functioning
 - 2.4.2. Smoke Extraction Systems
- 2.5. Image Recording Modules
- 2.6. Access Instrumentation
 - 2.6.1. Veress Needle
 - 2.6.2. First Access Trocars
 - 2.6.3. Accessory Trocars
- 2.7. Grasping Instruments
 - 2.7.1. Types of Instruments
 - 2.7.2. Most Appropriate Uses for Each
- 2.8. Cutting Instruments
- 2.9. Electrosurgery
 - 2.9.1. Electrosurgery in Medicine
 - 2.9.2. Monopolar Energy
 - 2.9.3. Bipolar Energy
 - 2.9.4. Electrical Isolation of Instruments
 - 2.9.5. Precautions to Avoid Accidents
- 2.10. Endoscopic Tissue Sealants
- 2.11. Bags and Specimen Extraction
- 2.12. EndoGIA and General Surgery Instrumentation
- 2.13. Morcellators and Containment Systems
- 2.14. Other Instruments: Aspiration, Suction, Retractors, Organ Suspension Systems, Port Closure Systems, Tie Rods, etc.

Module 3. General Training in Minimally Invasive Surgery

- 3.1. Introduction and Learning Pyramid
- 3.2. Different Types of Options for Learning Endoscopy
 - 3.2.1. Conducting Training Courses and Programs
 - 3.2.2. Laparoscopic Simulators
 - 3.2.2.1. Physical Simulations
 - 3.2.2.2. Virtual Simulators
 - 3.2.3. Animal Models in Gynecologic Endoscopy
 - 3.2.4. Human Models for Simulation
- 3.3. How to Build a Homemade Pelvitrainer
- 3.4. Different Types of Practical Pelvitrainer Exercises
- 3.5. Organ Bank and Artificial Phantoms

Module 4. Laparoscopic Suture Training

- 4.1. Introduction and Suture Use in Endoscopy
- 4.2. Types of Needles
- Types of Sutures Used
 - 4.3.1. Conventional Sutures
 - 4.3.2. Vascular Suture
 - 4.3.3. Bearded Suture
 - 4.3.4. Automatic Suture Systems
- 4.4. Specific Instrumentation
 - 4.4.1. Types of Needle Holders
 - 4.4.2. Low Knots
 - 4.4.3. LapraTy Applicator
 - 4.4.4. Others
- 4.5. Technical Aspects
 - 4.5.1. Introducing the Needle into the Cavity
 - 4.5.2. Needle Placement in Holder
 - 4.5.3. Types of Sutures
 - 4.5.4. Intracorporeal Knotting
 - 4.5.5. Extracorporeal Knotting
 - 4.5.6. Single-Port Knotting
 - 4.5.7. Sutures and Special Types of Knots (Vascular, Intestinal)
 - 4.5.6 Suture Removal.





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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.



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:

- 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.





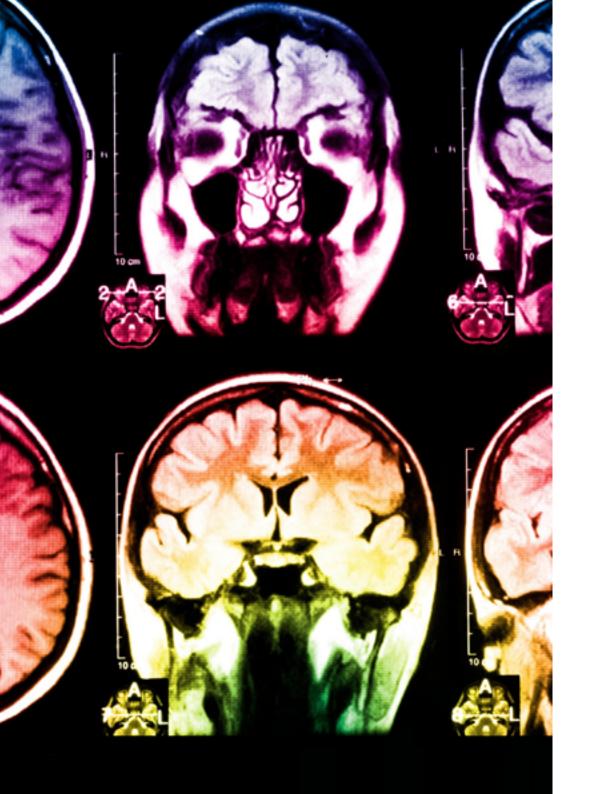
Relearning Methodology

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.





Methodology | 25 tech

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

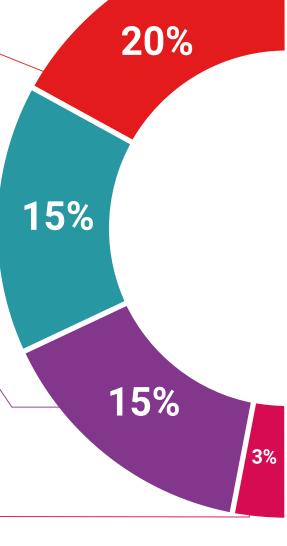
TECH introduces students to the latest techniques, the latest educational advances and to the forefront of current medical techniques. All of this in direct contact with students and explained in detail so as to aid their assimilation and understanding. And best of all, you can watch the videos as many 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.



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.

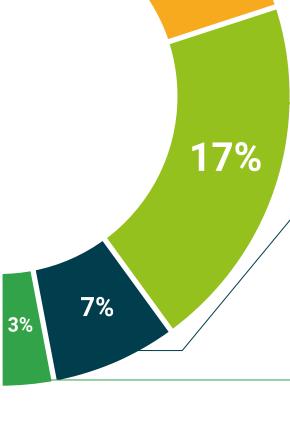
The system known as Learning from an Expert strengthens knowledge and memory, and generates confidence in future difficult decisions.



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.









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This program will allow you to obtain your **Postgraduate Diploma in Laparoscopic and Pelvitrainer Learning Models** 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 Laparoscopic and Pelvitrainer Learning Models Modality: online

Duration: 6 months

Accreditation: 17 ECTS



Mr./Ms. ______, with identification document _____ has successfully passed and obtained the title of:

Postgraduate Diploma in Laparoscopic and Pelvitrainer Learning Models

This is a private qualification of 510 hours of duration equivalent to 17 ECTS, with a start date of dd/mm/yyyy and an end date of dd/mm/yyyy.

TECH Global University is a university officially recognized by the Government of Andorra on the 31st of January of 2024, which belongs to the European Higher Education Area (EHEA).

In Andorra Ia Vella, on the 28th of February of 2024



^{*}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.

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guarantee accreditation teaching
institutions technology learning



Postgraduate Diploma Laparoscopic and Pelvitrainer Learning Models

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