

Postgraduate Diploma

Minimally Invasive Pelvic Floor Surgery





Postgraduate Diploma Minimally Invasive Pelvic Floor Surgery

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

Website: www.techtute.com/in/medicine/postgraduate-diploma/postgraduate-diploma-minimally-invasive-pelvic-floor-surgery

Index

01

Introduction

p. 4

02

Objectives

p. 8

03

Course Management

p. 12

04

Structure and Content

p. 16

05

Methodology

p. 22

06

Certificate

p. 30

01

Introduction

Medical training in minimally invasive surgery in the field of gynecology, including laparoscopy, is moderately short and insufficient due to the lack of time to delve into it. Because of this, many specialist medical professionals, and those who are currently in training, are demanding more specialization in this area. This, together with the difficulty of learning and the technical complexity of the field, make it essential to constantly renew knowledge, since the current evolution of instruments and mini-invasive techniques has experienced exponential growth in the last five years, which is difficult to adapt to without the appropriate continuous training.





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This program includes an innovative methodology that will help you specialize through the most complete and up-to-date scientific program on the market”

The justification for this Postgraduate Diploma is based on two fundamental aspects:

- ♦ The need to train or improve training for professionals in the field of minimally invasive surgery in gynecology.
- ♦ As well as the need to provide these professionals with a qualification that accredits this comprehensive training, due to the general lack of adequate programs oriented toward specific subspecialization in this area, which is experiencing increased demand from professionals interested in the field of gynecological surgery.

Furthermore, from a clinical point of view, laparoscopic and hysteroscopic surgery in gynecology is clearly displacing conventional surgery. That is why, in most healthcare centers, there is a tendency and an attempt to increase the uptake of this type of surgery..

The increasing complexity of the procedures that are performed laparoscopically has reached a point where practically 95% of gynecological operations can be performed by minimally invasive surgery, so updating new techniques is vital for the proper patient care. Moreover, instruments and new tools are constantly being developed and must be known for greater surgical efficiency and best clinical results.

This **Postgraduate Diploma in Minimally Invasive Pelvic Floor Surgery** contains the most complete and up-to-date scientific program on the market. The most important features of the program include:

- ♦ Clinical cases presented by experts in the different specialties
- ♦ 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
- ♦ Developments in minimally invasive pelvic floor surgery
- ♦ 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 minimally invasive pelvic floor surgery
- ♦ 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



Update your knowledge through the Postgraduate Diploma in Minimally Invasive Pelvic Floor Surgery in a practical way adapted to your needs”

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This Postgraduate Diploma may be the best investment you can make when choosing a refresher program for two reasons: in addition to updating your knowledge of Minimally Invasive Pelvic Floor Surgery, you will obtain a qualification from TECH Technological University”

Forming part of the teaching staff is a group of professionals from the field of Pelvic Floor Surgery, 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 immersive learning programmed 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. For this reason, students will be assisted by an innovative, interactive video system created by renowned and experienced experts in the field of Pelvic Floor Surgery with extensive teaching experience.

Increase your decision-making confidence by updating your knowledge with this Professional Diploma in Minimally Invasive Pelvic Floor Surgery.

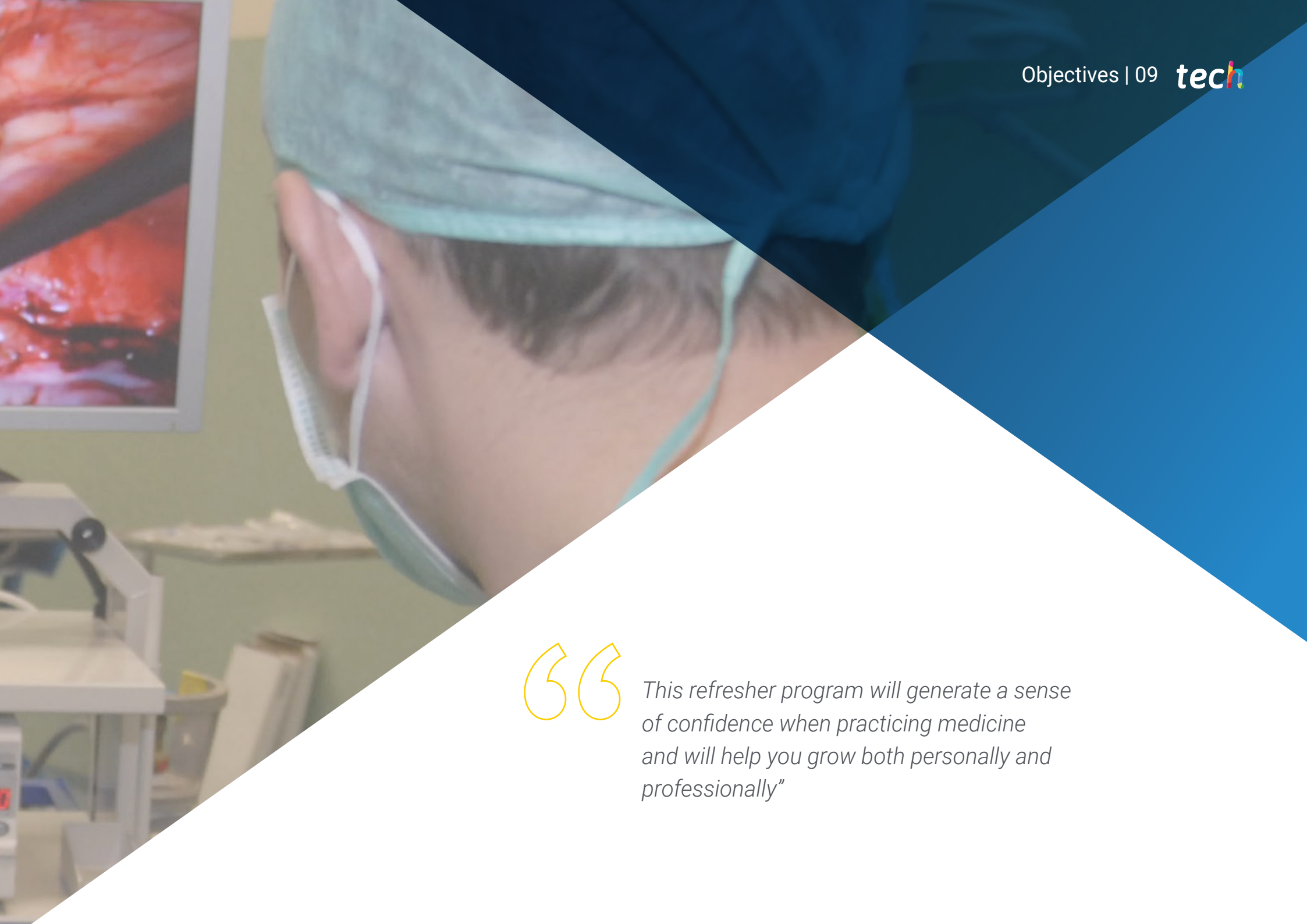
Don't miss out on the opportunity to update your knowledge of Minimally Invasive Pelvic Floor Surgery in order to improve patient care.



02 Objectives

The main program objective is to develop both theoretical and practical learning, so physicians can practically and rigorously master minimally invasive pelvic floor surgery.





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This refresher program will generate a sense of confidence when practicing medicine and will help you grow both personally and professionally”



General Objectives

- Know all the instruments available to perform endoscopic and hysteroscopic surgery.
- Know how to prepare the endoscopic operating room
- Learn about general aspects as ergonomics in the laparoscopic and electrosurgical operating room to be used in gynecological procedures
- 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 breast pathology
- Learn how to manage endometriosis endoscopically
- Know the different advanced techniques in gynecologic oncology for minimally invasive treatment
- Provide tools to resolve complications in gynecologic endoscopy



Specific Module Objectives

Module 1. Minimally Invasive Surgery

- Become familiar with the history of laparoscopy
- Know how to prepare the endoscopic operating room
- Learn postural factors and ergonomics
- Manage pre- and postoperative patients
- Know the anesthetic aspects related to endoscopy
- 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
- Know the details of conventional laparoscopic operating rooms
- Explore the anesthetic and recovery details of patients
- Learn *Fast-Track* postoperative management and the ERAS protocol

Module 2. Instrumentation, Materials and Electrosurgery

- Know the dissection and cutting instruments used in laparoscopy
- Acquire skills to correctly select optics for each patient
- Know the arsenal of entry trocars used in surgeries
- Acquire information about electrosurgery for its use in clinical practice
- Gain detailed knowledge of all the accessory material for gynecological laparoscopy
- Learn the types of recorders available for surgery
- Learn laparoscopic vision system orientation

- ♦ Learn about the types of insufflators and how they work
- ♦ Know general surgical instruments
- ♦ Know specimen extraction bags
- ♦ Learn to use bipolar and monopolar power instrumentation
- ♦ Learn the types and use of tissue sealants
- ♦ Select morcellation instruments and apply them safely
- ♦ Understand irrigation and suction systems

Module 3. Female Surgical Anatomy

- ♦ Learn abdominal wall anatomy
- ♦ Review the anatomy of the pelvic and abdominal visceral system, including the upper abdomen
- ♦ Refresh understanding of pelvic vascular system anatomy and review the para-aortic vascular system and the vena cava
- ♦ Study abdomino-pelvic vascular abnormalities
- ♦ Know the lymphatic system and its detailed laparoscopic management
- ♦ Learn about the functional anatomy of the female pelvic floor
- ♦ Determine vulvo-vaginal area exploration and its relation to pelvic floor pathology
- ♦ Study the sympathetic and parasympathetic nerve anatomy of the female pelvis
- ♦ Study the evaluation of pelvic floor defects
- ♦ Learn about the different types of laparoscopic and vaginal meshes to resolve such abnormalities
- ♦ Apply cystoscopy after performing reparative techniques

Module 4. Pelvic Floor Pathology

- ♦ Review the scientific evidence on the use of endoscopy in pelvic floor pathology
- ♦ Gain in-depth knowledge of laparoscopic sacrocolpopexy
- ♦ Know potential complications and their management in pelvic floor pathology
- ♦ Explain laparoscopic repair of paravaginal defects
- ♦ Know how to place different meshes to resolve urinary incontinence

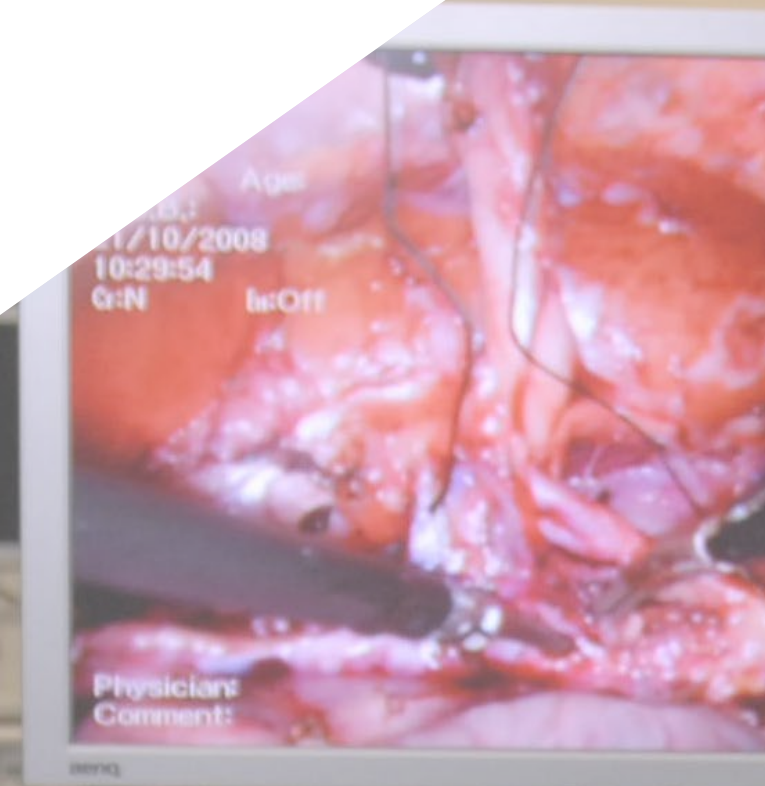


Seize opportunity and take the step to get up to date on the latest developments in minimally invasive pelvic floor surgery"

03

Course Management

To give a quality approach to all the topics covered in this program, TECH has contacted one of the most relevant figures in Endoscopic Surgery in Gynecologic Oncology. Recognized for his contributions in the area of Uterine Transposition, this teaching staff will provide a series of distinctive Masterclasses with which to further delve into the most important developments in Gynecologic Oncology.





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Rely on the knowledge of international experts in Endoscopic Surgery in Gynecologic Oncology, with extensive clinical and academic merits that guarantee the quality of its contents"

International Guest Director

As one of the pioneer surgeons in Brazil by introducing advanced techniques of **Laparoscopic Oncologic Surgery** in Paraná, Dr. Reitan Ribeiro is one of the most prolific figures 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, McGill 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

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



Thanks to TECH you will be able to learn with the best professionals in the world"

04

Structure and Content

The content structure has been designed by a team of professionals knowledgeable of the implications of specialization in daily medical practice, who are aware of the current relevance of training to be able to treat patients with pelvic floor pathology, and who are committed to quality teaching through new educational technologies.





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This Postgraduate Diploma in Minimally Invasive Pelvic Floor Surgery contains the most complete and up-to-date scientific program on the market”

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* Programs
- 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. Endoscopy
 - 2.2.1. Rigid Endoscopy
 - 2.2.2. Flexible and Angle Adjustable Endoscopes
 - 2.2.3. Small Bore Endoscopes
- 2.3. Vision Systems
 - 2.3.1. Full HD High-Definition Systems
 - 2.3.2. 3D Vision Systems
 - 2.3.3. 4K Vision Systems
- 2.4. Insufflation Systems
 - 2.4.1. General Functioning
 - 2.4.2. Smoke Extraction Systems
- 2.5. Access Instrumentation
 - 2.5.1. Veress Needle
 - 2.5.2. First Access Trocars
 - 2.5.3. Accessory Trocars
- 2.6. Grasping Instruments
 - 2.6.1. Types of Instruments
 - 2.6.2. Most Appropriate Uses for Each
- 2.7. Electrosurgery
 - 2.7.1. Electrosurgery in Medicine
 - 2.7.2. Monopolar Energy
 - 2.7.3. Bipolar Energy
 - 2.7.4. Electrical Isolation of Instruments
 - 2.7.5. Precautions to Avoid Accidents
- 2.8. Endoscopic Tissue Sealants
- 2.9. Bags and Specimen Extraction
- 2.10. EndoGIA and General Surgery Instrumentation
- 2.11. Morcellators and Containment Systems
- 2.12. Other Instruments: Aspiration, Suction, Retractors, Organ Suspension Systems, Port Closure Systems, Tie Rods, etc.

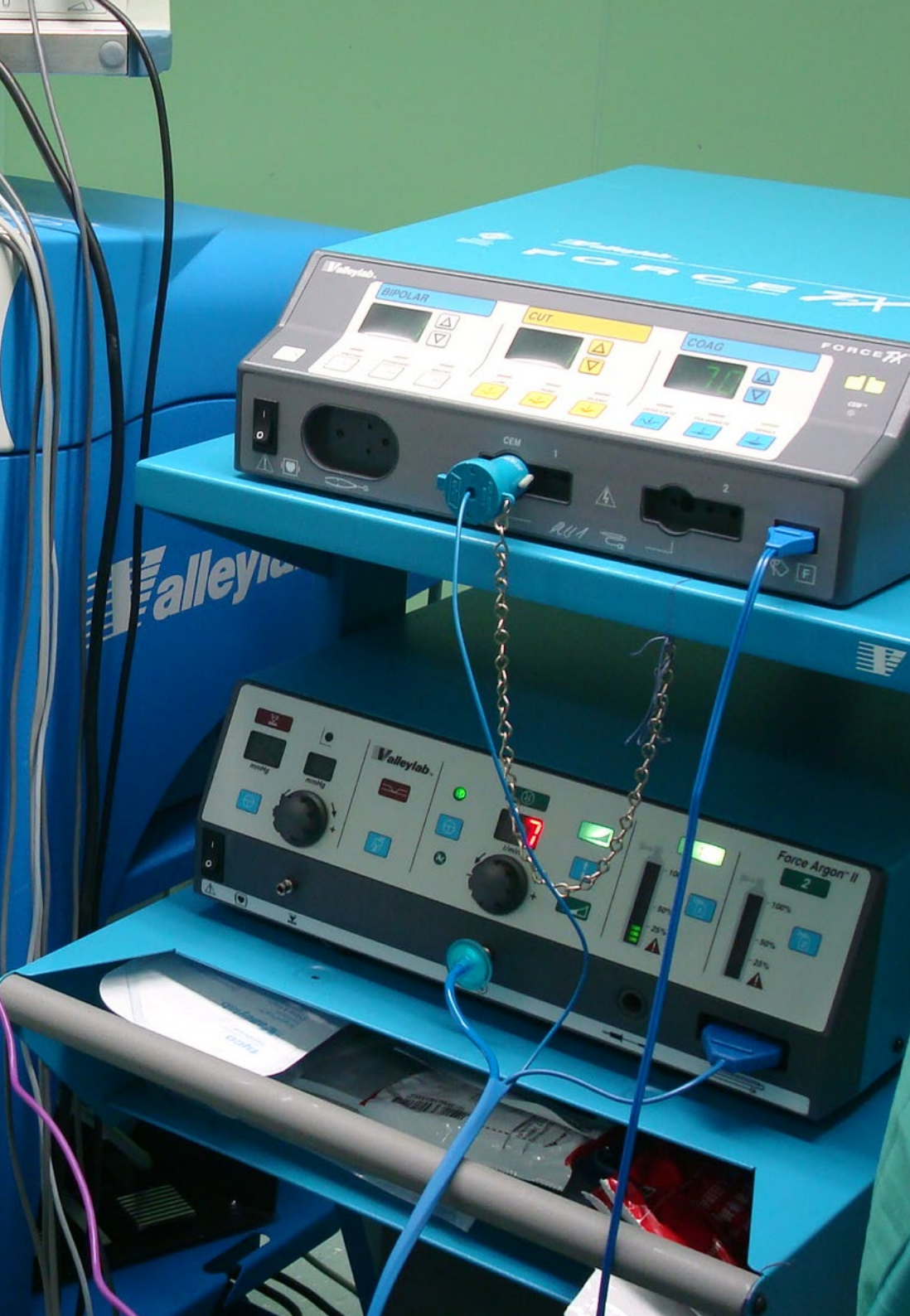
Module 3. Female Surgical Anatomy

- 3.1. Parametrial Surgical Anatomy
- 3.2. Musculo-Fascial Anatomy of the Female Pelvis
- 3.3. Pelvic Visceral System: Ureters Abdomino-Pelvic Vascular System
 - 3.3.1. Uterus and Ovaries
 - 3.3.2. Recto and Sigma
 - 3.3.3. Bladder and Ureters
- 3.4. Abdominal and Pelvic Nervous System
- 3.5. Dissection and Limits of Avascular Spaces
- 3.6. Vascular Abnormalities in the Pelvic Area: Corona Mortis
 - 3.6.1. Abnormalities in the Pelvic Area
 - 3.6.2. Corona Mortis
 - 3.6.3. Abdominal and Aortic Area Abnormalities
 - 3.6.4. Use of Preoperative Imaging Techniques

Module 4. Pelvic Floor Pathology

- 4.1. Pathologies Affecting the Pelvic Floor
- 4.2. Pathophysiology of Pelvic Floor Problems
- 4.3. Overall Patient Assessment
- 4.4. When to Operate on a Patient with Pelvic Floor Pathology?
- 4.5. Prosthetic Materials in Pelvic Floor Surgery
- 4.6. Urinary Incontinence Surgery
- 4.7. Genital Prolapse Surgery





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

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 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

In a given situation, what should a professional 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 an abundance of 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. Gervas, the clinical case is the annotated presentation of a patient, or group of patients, which becomes a "case", an example or model that illustrates some peculiar clinical component, either because of its teaching 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.

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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 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.
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 Harvard case method with the best 100% online teaching methodology available: Relearning.

Our University is the first in the world to combine the study of clinical cases with a 100% online learning system based on repetition, combining a minimum of 8 different elements in each lesson, which represent a real revolution with respect to simply studying and analyzing cases.



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.

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 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 socio-economic profile and an average age of 43.5 years.

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

In our program, learning is not a linear process, but rather a spiral (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.



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.

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 exclusive educational system for presenting multimedia content 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.



Testing & Retesting

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 Minimally Invasive Pelvic Floor Surgery guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Diploma issued by TECH Technological University.



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Successfully complete this program and receive your university qualification without having to travel or fill out laborious paperwork”

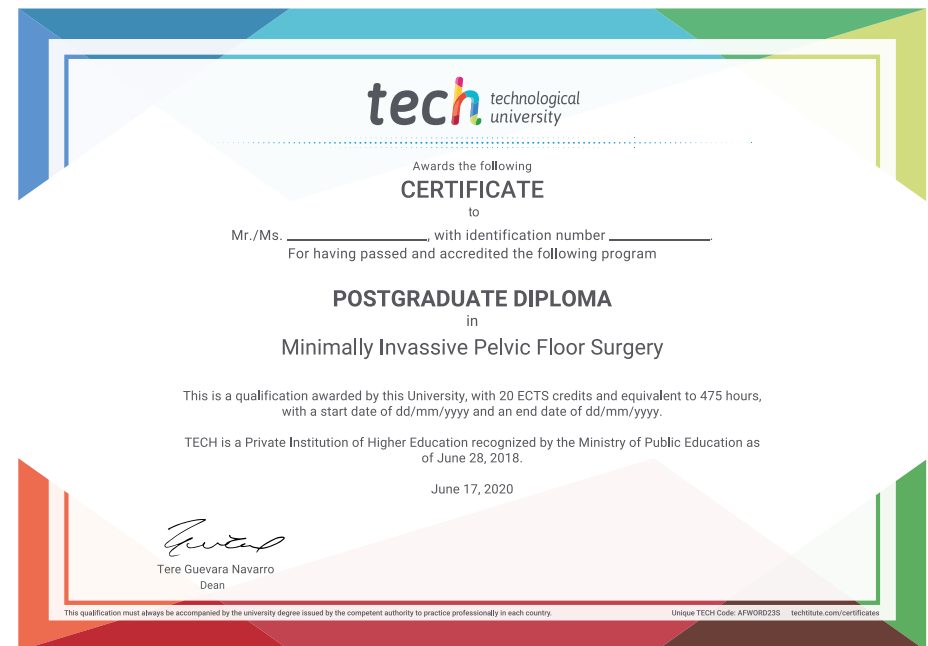
This **Postgraduate Diploma in Minimally Invasive Pelvic Floor Surgery** contains the most complete and up-to-date scientific program on the market.

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 career evaluation committees.

Title: **Postgraduate Diploma in Minimally Invasive Pelvic Floor Surgery**

Official Number of Hours: **525**



*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 language
virtual classroom



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Postgraduate Diploma

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