

# Postgraduate Certificate

## Innovations in Major Outpatient Surgery





## Postgraduate Certificate Innovations in Major Outpatient Surgery

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

Website: [www.techtute.com/us/medicine/postgraduate-certificate/innovations-major-outpatient-surgery](http://www.techtute.com/us/medicine/postgraduate-certificate/innovations-major-outpatient-surgery)

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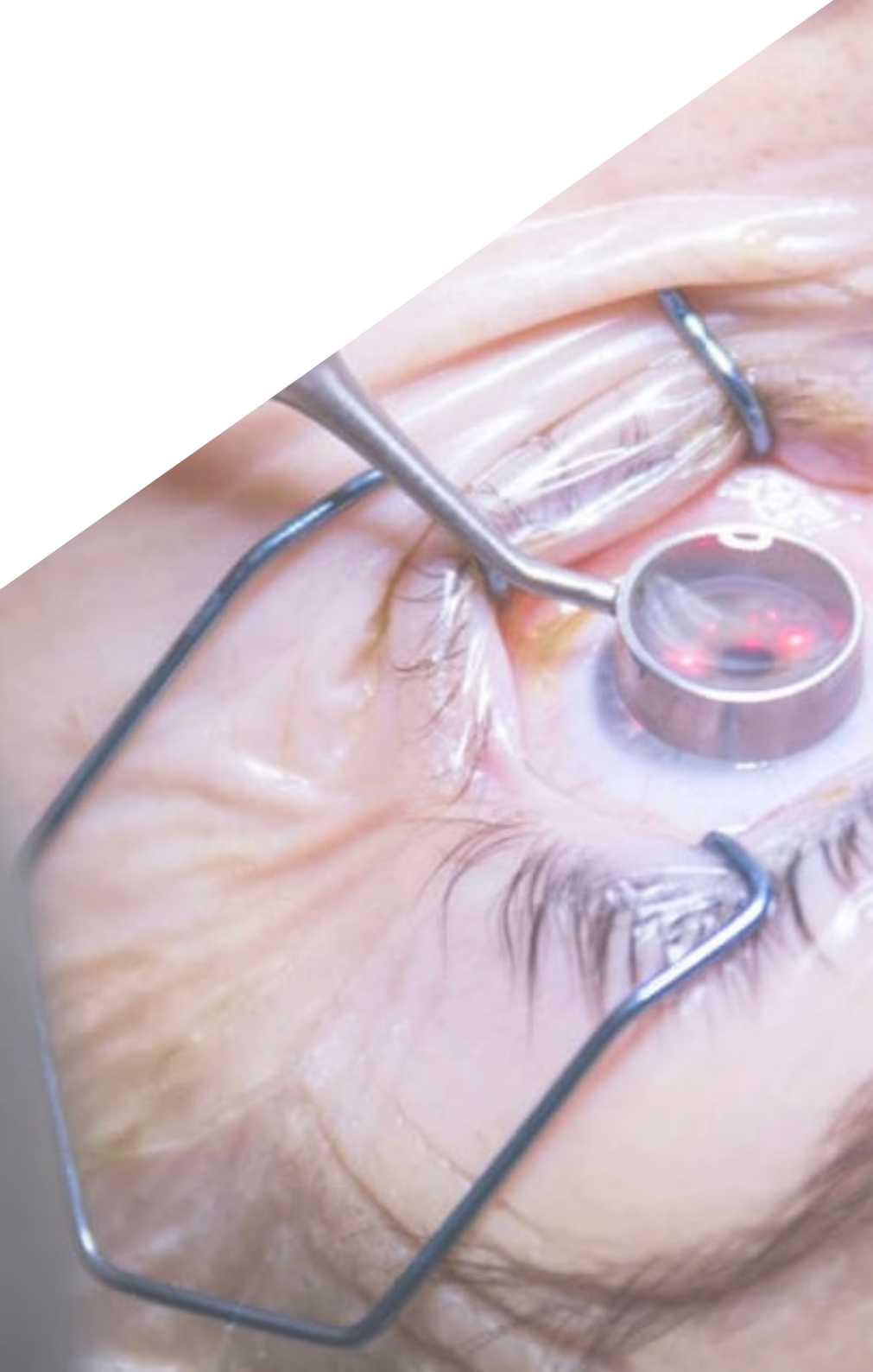
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# 01

# Introduction

Major Outpatient Surgery is an area of medicine that has evolved significantly in recent years, offering patients safer, less invasive and quicker recovery surgical options. In order to provide health professionals with the necessary tools and knowledge to stay up-to-date in this field, TECH has designed the ideal program for these specialists. This program is focused on teaching the most innovative operative techniques, based on the latest evidence and with the scientific rigor required in this specialty. In addition, the syllabus is taught 100% online, using a pedagogical methodology based on Relearning and providing the flexibility to organize academic resources.





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*Graduates of the program will have a direct and comprehensive view of the latest advances in surgical techniques employed by the real experts”*

Major Outpatient Surgery (MOS) is a surgical technique used to perform operations of a certain complexity and duration in patients who are discharged immediately. This method has become a safe and effective alternative for those assisted, since it avoids prolonged hospitalization and the risks associated with nosocomial infections. In addition, it opens the door to significant savings in medical costs and an improvement in the efficiency of the healthcare system.

TECH has designed an appropriate program to provide medical professionals with up-to-date information on the use of surgical practices that do not require extensive incapacitation. The contents are focused on offering the surgeon the most avant-garde tactics in the performance of the main major outpatient actions, as well as the most effective procedures in patient care. In this way, the student will have access to the possibility of accessing or ascending to important jobs in this area.

The Postgraduate Certificate consists of a series of modules that cover from the theoretical foundations to the most practical aspects of the MOS. Students will have access to innovative teaching resources that can be easily used from any device with an Internet connection. The *Relearning* pedagogical methodology allows students to advance in their learning at their own pace, by reviewing and revising the contents. In addition, the program is 100% online, which facilitates greater flexibility in organizing academic resources and adapting the course to the needs of each student.

This **Postgraduate Certificate in Innovations in Major Outpatient Surgery** 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 Innovations in Major Outpatient Surgery
- ♦ The graphic, schematic, and practical contents with which they are created, provide scientific and practical information on the disciplines that are essential for professional practice
- ♦ Practical exercises where self-assessment can be used to improve learning
- ♦ Its special emphasis on innovative methodologies
- ♦ 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



*Prepare for career challenges with an innovative and flexible pedagogical approach”*

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*With an innovative pedagogical approach and unprecedented flexibility, students will be able to acquire the skills necessary to improve effectiveness and efficiency in health care”*

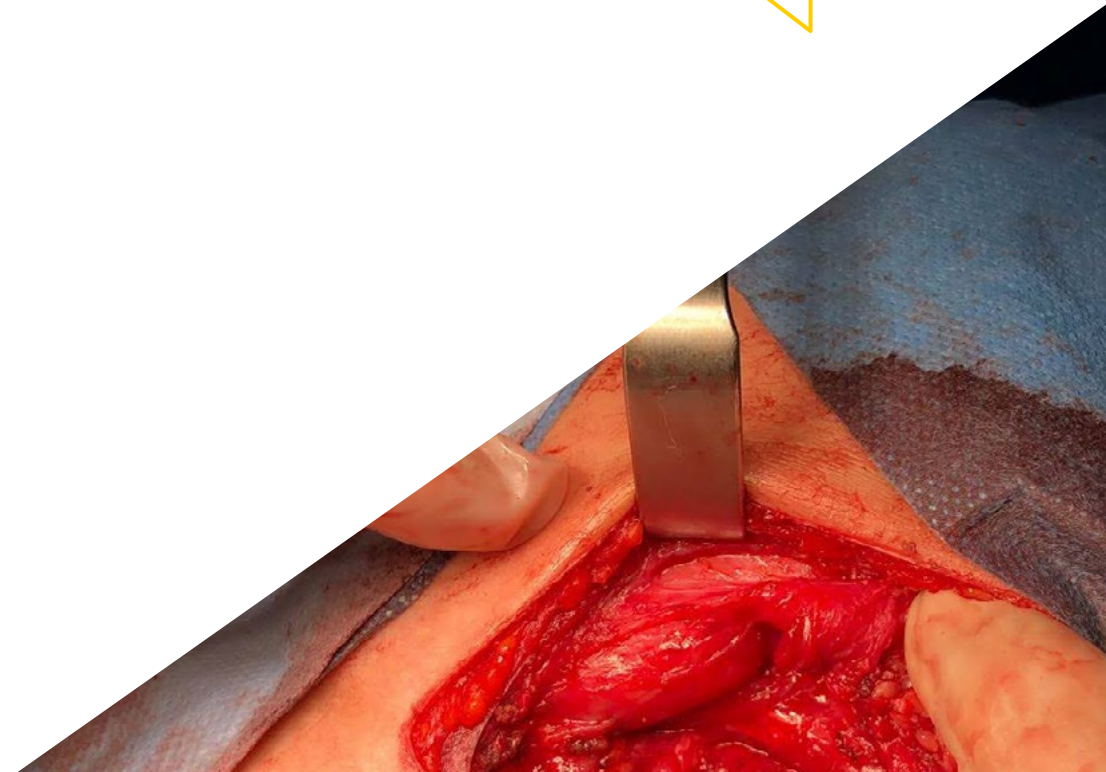
The program includes in its teaching staff professionals from the sector who bring to this program the experience of their work, as well as recognized specialists from leading societies and prestigious universities.

Its 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 an immersive education programmed to learn in real situations.

This program is designed around Problem-Based Learning, whereby students must try to solve the different professional practice situations that arise throughout the program. For this purpose, the student will be assisted by an innovative interactive video system created by renowned experts.

*Enroll and upgrade your surgical skills with this program and take your career to the next level.*

*Learn the most advanced surgical techniques in the field of Outpatient Surgery with TECH.*



# 02

# Objectives

The primary objective of this program is to provide surgeons with the most innovative surgical techniques to perform major outpatient procedures. It also seeks to provide students with the most effective procedures in patient selection and care. In order to successfully achieve this purpose, TECH has developed advanced pedagogical tools that utilize the latest technology in the field of university qualifications. This will provide students with sophisticated and effective educational resources to enhance their education in this field of medicine. For this reason, TECH has established a series of general and specific objectives for the satisfaction of future graduates, as follows.







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*Discover how technological advances are transforming Major Outpatient Surgery and how you can take advantage of them in your daily practice”*



## General Objectives

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- Delve into the different pathologies approached in Major Outpatient Surgery
- Delve into the anatomy and physiology necessary to understand the main procedures in Major Outpatient Surgery
- Delve deeper into the main surgeries in Major Outpatient Surgery
- Improve knowledge on the need for antibiotic prophylaxis in Major Outpatient Surgery
- Provide the tools to know how to manage the thromboembolic approach in Major Outpatient Surgery





## Specific Objectives

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- ◆ Differentiate the different Major Outpatient Surgery units according to their relationship with the hospital
- ◆ Delve into the basic infrastructure, as well as the different care circuits and equipment
- ◆ Delve into the basic organization of an Major Outpatient Surgery unit, as well as the relationship with other services and levels of care
- ◆ Emphasize the importance of research in surgery, as well as new developments in innovation in Major Outpatient Surgery



*Take the opportunity to learn about the latest advances in this field in order to apply it to your daily practice"*

03

# Course Management

The directors and teaching staff of the Postgraduate Certificate are highly specialized professionals in General Surgery and other medical specialties. This multidisciplinary team has an extensive clinical and research background, which is reflected in the complete syllabus of the program. In this way, students will have the opportunity to obtain a detailed and complete vision of the latest advances in surgical techniques, taught by true experts in the field.





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*Learn how to select and treat patients with common pathologies such as digestive, breast, endocrine, otological, among others, with this up-to-date program in the area”*

## Management



### Dr. Palacios Sanabria, Jesús Enrique

- ♦ Specialist of General Surgery at the Basic General Hospital of Baza-Granada
- ♦ General Surgeon in the Bariatric and Metabolic Surgery team at the Canabal Clinic
- ♦ General Surgeon at the IDB Clinic in Barquisimeto
- ♦ Professor in the Minor Surgery Course at the Andalusian Health Service
- ♦ Medical Surgeon by the 'Lisandro Alvarado' Central Western University
- ♦ Specialist in General Surgery at the 'Lisandro Alvarado' Central Western University
- ♦ Master's Degree in General Surgery and Digestive System Updating



### Dr. Montes Martínez, Antonio

- ♦ Head of the Major Outpatient Surgery Section at Hospital del Mar
- ♦ Head of the Pain Unit of the Institut Ferrán de Reumatología at the Hospital Sanitas CIMA in Barcelona
- ♦ Attending Physician of the Pain Unit at the Hospital del Mar in Barcelona
- ♦ Doctor of Medicine, Autonomous University of Barcelona
- ♦ Degree in Medicine and Surgery from the Central University of Barcelona
- ♦ Specialist in Anesthesiology, Resuscitation and Pain Treatment at the Germans Trias i Pujol Hospital in Barcelona
- ♦ Co-author of several research articles related to the area of General Surgery

## Professors

### Dr. Pérez Morales, Adolycar

- ♦ Dentist in the Smile Dental Clinic in Madrid
- ♦ Dentist at the Dental Prevent Clinic
- ♦ Dentistry Assistant at Dentalcorisa Clinic
- ♦ Dentist and manager of the Dental Clinic Nanetti Colmenares
- ♦ Dentist at the Center for Rehabilitation and Oral Aesthetics Odontomark
- ♦ Degree in Dentistry from the José Antonio Páez University
- ♦ Postgraduate Certificate in Oral Surgery and Teeth Whitening

### Ms. Sanabria Chópita, María Elena

- ♦ Specialist in Applied Biology and Botany
- ♦ Professor at Lisandro Alvarado Centralwestern University
- ♦ Research Coordinator at Lisandro Alvarado Centralwestern University
- ♦ Degree in Biology from the Eastern University - School of Sciences
- ♦ Magister Scientiarum in Applied Biology from the Eastern University - School of Sciences
- ♦ Award "Woman in Science 2018" by the Academy of Natural Sciences of Venezuela
- ♦ Author and co-author of several scientific and/or research articles, books, chapters and proceedings for scientific events

### Ms. Canales González, María Isabel

- ♦ Nurse in different services and public hospitals in Andalusia
- ♦ Nurse in the Operating Room of the Basic General Hospital of Baza
- ♦ Degree in Nursing from the University of Cadiz
- ♦ Master's Degree in Nursing Care, Procedures and Techniques from the Catholic University of San Antonio
- ♦ Postgraduate Diploma in Nursing in Emergency and Urgent Care, Antonio de Nebrija University
- ♦ Nursing Expert in Pregnancy, Childbirth and Puerperium by the Antonio de Nebrija University
- ♦ Course in Minor and Ambulatory Surgery by the College of Nursing of Granada



*Take advantage of this opportunity to surround yourself with expert professionals and learn from their work methodology"*

# 04

## Structure and Content

This Postgraduate Certificate has been designed with the objective of offering medical professionals the most up-to-date contents on Major Outpatient Surgery. With an innovative vision, we have included the latest surgical and diagnostic techniques in common pathologies such as Digestive, Breast, Endocrine, Otologic, among others. All this with a rigorous approach and based on the latest scientific evidence. In addition, graduates of the program will have innovative teaching resources that will allow them to easily access information from any device with an Internet connection. Accessing TECH is a unique opportunity to stay up-to-date and advance in the practice of the different existing surgeries at the non-hospital level.





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*Enroll with TECH and update your surgical skills with the Postgraduate Certificate in Innovations in Major Outpatient Surgery, designed to adapt to your personal schedule and needs”*

## Module 1. Structure and Organization in Major Outpatient Surgery

- 1.1. Definition of the Major Outpatient Surgery Model
  - 1.1.1. Concepts
  - 1.1.2. Integrated Unit
  - 1.1.3. Autonomous Unit
  - 1.1.4. Independent Unit
- 1.2. Major Outpatient Surgery Infrastructure and Organization
  - 1.2.1. Basic Structure of Major Outpatient Surgery Units
  - 1.2.2. Assistance Circuits
  - 1.2.3. Equipment
  - 1.2.4. Organization. Management Structure
- 1.3. Information and Informed Consent in Major Outpatient Surgery
  - 1.3.1. Information of Major Outpatient Surgery Users
  - 1.3.2. Information on General Characteristics
  - 1.3.3. Informed Consent
  - 1.3.4. Instructions and Recommendations
- 1.4. Management of the Major Outpatient Surgery Unit
  - 1.4.1. Results Management
  - 1.4.2. Indicators Management
  - 1.4.3. Portfolio of services
  - 1.4.4. Major Outpatient Surgery Indicators
- 1.5. Research in Surgery
  - 1.5.1. Importance of Research in Surgery
  - 1.5.2. Evidence-Based Medicine
  - 1.5.3. How to Prepare a Scientific Communication at a Congress
  - 1.5.4. The Research Project
- 1.6. Innovations in Major Outpatient Surgery
  - 1.6.1. Technical Innovations
  - 1.6.2. Innovations in Practical Organizations
  - 1.6.3. Innovative Instruments and Devices
  - 1.6.4. Conclusions





- 1.7. Innovation in Minimally Invasive Surgery
  - 1.7.1. Introduction
  - 1.7.2. Innovation versus Minimization
  - 1.7.3. Stages of Innovation and Decadence of the Surgeon
  - 1.7.4. Conclusions
- 1.8. Integrated Operating Room
  - 1.8.1. Definition of Integrated Operating Room
  - 1.8.2. Elements of an Integrated Operating Room
  - 1.8.3. Advantages and Benefits of the Conventional Operating Room
  - 1.8.4. Conclusions
- 1.9. Other Sources of Innovation in Surgery
  - 1.9.1. Big Data
  - 1.9.2. Artificial Intelligence
  - 1.9.3. Machine Learning
  - 1.9.4. Impact of Social Media in Surgery
- 1.10. Oral Surgery
  - 1.10.1. Introduction
  - 1.10.2. Elements of Oral Surgery
  - 1.10.3. Oral Surgery Preparation
  - 1.10.4. Conclusions

“With the Relearning pedagogical approach, you will not only learn the most innovative surgical techniques, but you will also retain the information better and apply it more effectively in your daily practice”

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 Certificate in Innovations in Major Outpatient Surgery guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate 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 Certificate in Innovations in Major Outpatient Surgery** contains the most complete and up-to-date scientific on the market.

After the student has passed the assessments, they will receive their corresponding issued **Postgraduate Certificate** issued by **TECH Technological University** via tracked delivery\*.

The diploma issued by **TECH Technological University** will reflect the qualification obtained in the Postgraduate Certificate, and meets the requirements commonly demanded by labor exchanges, competitive examinations, and professional career evaluation committees.

Program: **Postgraduate Certificate in Innovations in Major Outpatient Surgery**

Official N° of hours: **150 h.**



\*Apostille Convention. In the event that the student wishes to have their paper diploma 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



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