

Postgraduate Certificate

Anesthesia in Minimally Invasive Thoracic Surgery



Postgraduate Certificate Anesthesia in Minimally Invasive Thoracic Surgery

- » Modality: online
- » Duration: 6 weeks
- » Certificate: TECH Global University
- » Accreditation: 6 ECTS
- » Schedule: at your own pace
- » Exams: online

Website: www.techtitude.com/us/medicine/postgraduate-certificate/anesthesia-minimally-invasive-thoracic-surgery

Index

01

Introduction to the Program

p. 4

02

Why Study at TECH?

p. 8

03

Syllabus

p. 12

04

Teaching Objectives

p. 16

05

Study Methodology

p. 20

06

Teaching Staff

p. 30

07

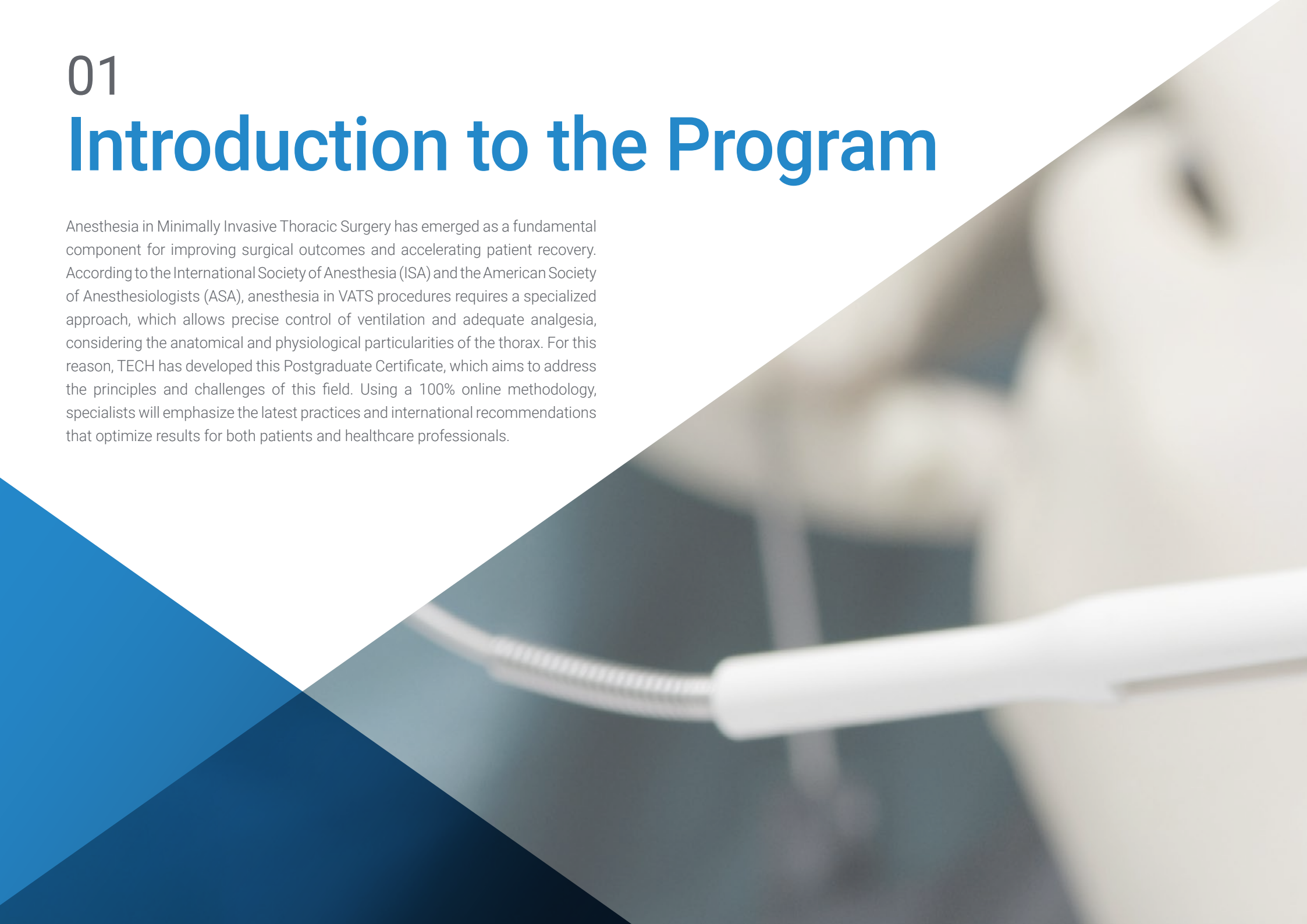
Certificate

p. 36

01

Introduction to the Program

Anesthesia in Minimally Invasive Thoracic Surgery has emerged as a fundamental component for improving surgical outcomes and accelerating patient recovery. According to the International Society of Anesthesia (ISA) and the American Society of Anesthesiologists (ASA), anesthesia in VATS procedures requires a specialized approach, which allows precise control of ventilation and adequate analgesia, considering the anatomical and physiological particularities of the thorax. For this reason, TECH has developed this Postgraduate Certificate, which aims to address the principles and challenges of this field. Using a 100% online methodology, specialists will emphasize the latest practices and international recommendations that optimize results for both patients and healthcare professionals.





“

Do you want to be an expert in Anesthesia for Minimally Invasive Thoracic Surgery? This is your moment! Enroll at TECH and acquire the key skills to face the challenges of these cutting-edge procedures”

Given that Minimally Invasive Thoracic Surgery is gaining popularity in the treatment of various lung diseases, having highly specialized anesthesia adapted to these techniques is essential to improve clinical outcomes and optimize the patient experience. Therefore, education in this field not only increases the quality of care, but also positions professionals as leaders in a constantly evolving field.

For this reason, TECH has developed this Postgraduate Certificate in Anesthesia in Minimally Invasive Thoracic Surgery, which will offer comprehensive and specialized education, designed to prepare experts in one of today's most advanced and in-demand areas. Throughout this program, and with a comprehensive approach, physicians will learn how to efficiently manage the most modern and effective techniques, adapted to the specific needs of each clinical case. This will allow them to offer precise and safe control of patients' vital functions, optimizing results and reducing complications. In turn, they will know how to handle the particularities of each surgery to guarantee a fast and less painful recovery.

In this sense, the program will offer significant advantages for the future employment of graduates. They will position themselves as specialists in a field with high demand, expanding their opportunities in hospitals and specialized medical centers. In this way, they will not only improve their professional performance, but also stay at the forefront of medical advances, a crucial factor for developing a successful career in the healthcare sector.

Likewise, the 100% online modality will provide a flexible, convenient learning experience adapted to the needs of the students. This will also be complemented by the Relearning methodology, which will allow students to learn in an active and dynamic way.

Through interactive content, practical activities and multimedia material, they will reinforce what they have learned, facilitating the retention and application of knowledge in real situations.

This **Postgraduate Certificate in Anesthesia in Minimally Invasive Thoracic Surgery** contains the most complete and up-to-date scientific program on the market. Its most notable features are:

- ♦ The development of case studies presented by experts with a deep knowledge of Anesthesia in Minimally Invasive Thoracic Surgery
- ♦ The graphic, schematic and eminently practical contents with which it is conceived gather scientific and practical information on those disciplines that are indispensable for professional practice
- ♦ Practical exercises where the process of 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



The flexibility and accessibility of this Postgraduate Certificate make it the ideal option for learning without compromising your time and your daily responsibilities. Get ready to make a difference in the care of your patients! "

“

Do you want to transform your professional approach? This qualification will prepare you with the best interactive content, guided by specialized teachers. Take the next step towards your future!"

The program's teaching staff includes professionals from the field who contribute their work experience to this educational program, as well as renowned specialists from leading societies and prestigious universities.

The multimedia content, developed with the latest educational technology, will provide the professional with situated and contextual learning, i.e., a simulated environment that will provide immersive education programmed to prepare for real situations.

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

You will have access to flexible and up-to-date learning and you will study at your own pace with the most comprehensive syllabus. Benefit from the online TECH program and advance your medical career now!

You will optimize your career with the latest technology in Thoracic Anesthesia: You will learn from the comfort of your own home with the Relearning methodology and become an expert in the field. Enroll today!



02

Why Study at TECH?

TECH is the world's largest online university. With an impressive catalog of more than 14,000 university programs available in 11 languages, it is positioned as a leader in employability, with a 99% job placement rate. In addition, it relies on an enormous faculty of more than 6,000 professors of the highest international renown.



“

Study at the world's largest online university and guarantee your professional success. The future starts at TECH”

The world's best online university according to FORBES

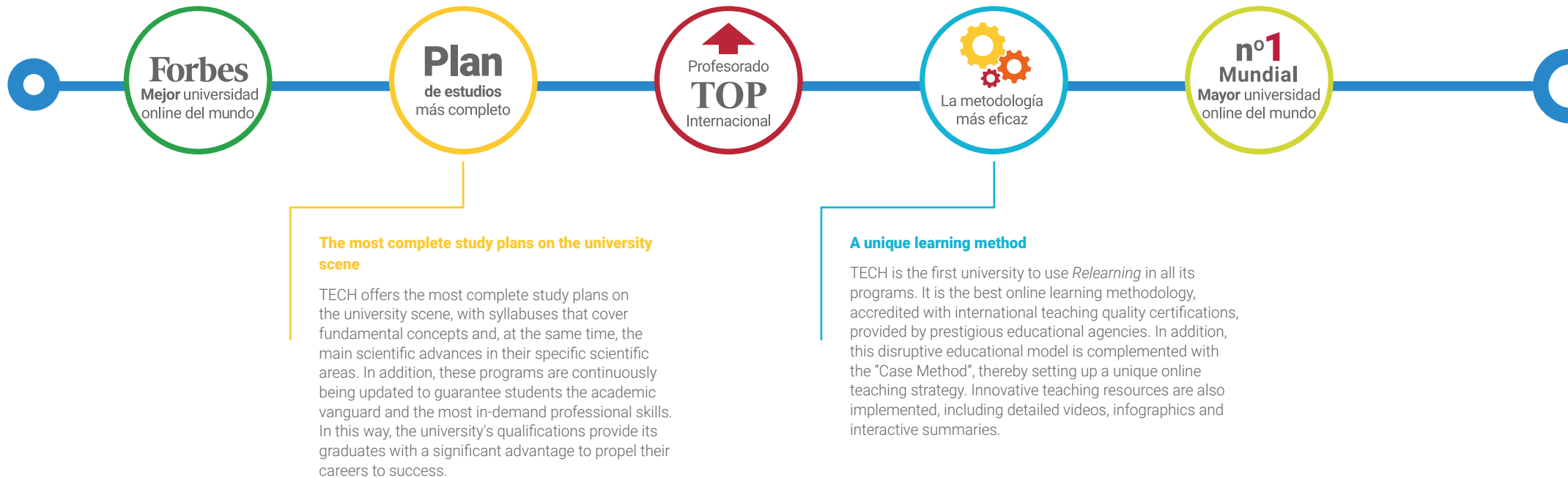
The prestigious Forbes magazine, specialized in business and finance, has highlighted TECH as "the world's best online university". This is what they have recently stated in an article in their digital edition in which they echo the success story of this institution, "thanks to the academic offer it provides, the selection of its teaching staff, and an innovative learning method aimed at educating the professionals of the future"

A world-class teaching staff

TECH's teaching staff is made up of more than 6,000 professors with the highest international recognition. Professors, researchers and top executives of multinational companies, including Isaiah Covington, performance coach of the Boston Celtics; Magda Romanska, principal investigator at Harvard MetaLAB; Ignacio Wistumba, chairman of the department of translational molecular pathology at MD Anderson Cancer Center; and D.W. Pine, creative director of TIME magazine, among others.

The world's largest online university

TECH is the world's largest online university. We are the largest educational institution, with the best and widest online educational catalog, one hundred percent online and covering the vast majority of areas of knowledge. We offer a large selection of our own degrees and accredited online undergraduate and postgraduate degrees. In total, more than 14,000 university degrees, in eleven different languages, make us the largest educational largest in the world.



The official online university of the NBA

TECH is the official online university of the NBA. Thanks to our agreement with the biggest league in basketball, we offer our students exclusive university programs, as well as a wide variety of educational resources focused on the business of the league and other areas of the sports industry. Each program is made up of a uniquely designed syllabus and features exceptional guest hosts: professionals with a distinguished sports background who will offer their expertise on the most relevant topics.

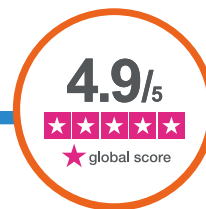
Leaders in employability

TECH has managed to become the leading university in employability. 99% of its students obtain jobs in the academic field they have studied, within one year of completing any of the university's programs. A similar number achieve immediate career enhancement. All this thanks to a study methodology that bases its effectiveness on the acquisition of practical skills, which are absolutely necessary for professional development.



Google Premier Partner

The American technology giant has awarded to TECH the Google Premier Partner badge. This award, which is only available to 3% of the world's companies, highlights the efficient, flexible and tailored experience that this university provides to students. The recognition as a Google Premier Partner not only accredits the maximum rigor, performance and investment in TECH's digital infrastructures, but also places this university as one of the world's leading technology companies.



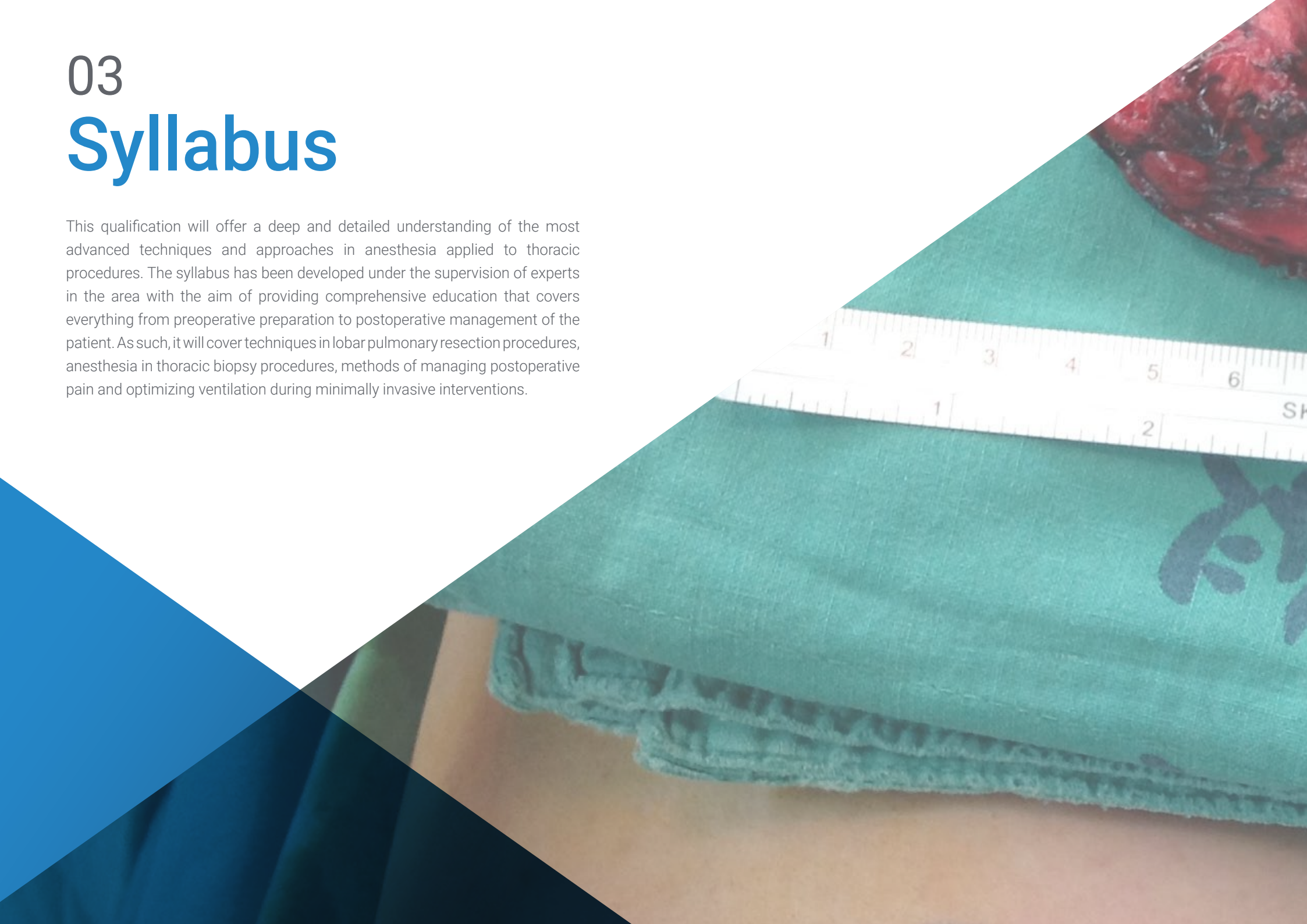
The top-rated university by its students

Students have positioned TECH as the world's top-rated university on the main review websites, with a highest rating of 4.9 out of 5, obtained from more than 1,000 reviews. These results consolidate TECH as the benchmark university institution at an international level, reflecting the excellence and positive impact of its educational model.



03 Syllabus

This qualification will offer a deep and detailed understanding of the most advanced techniques and approaches in anesthesia applied to thoracic procedures. The syllabus has been developed under the supervision of experts in the area with the aim of providing comprehensive education that covers everything from preoperative preparation to postoperative management of the patient. As such, it will cover techniques in lobar pulmonary resection procedures, anesthesia in thoracic biopsy procedures, methods of managing postoperative pain and optimizing ventilation during minimally invasive interventions.





“

Only this TECH Postgraduate Certificate will give you the ability to face the challenges of anesthesia in complex surgeries, boosting your career towards new professional opportunities in hospitals and specialized clinics”

Module 1. Anesthesia in Minimally Invasive Thoracic Surgery

- 1.1. Evolution of Anesthesia towards Minimally Invasive Surgery
 - 1.1.1. Background and Evolution of Anesthesia in Minimally Invasive Thoracic Surgery
 - 1.1.2. Advances in Anesthetic Techniques
 - 1.1.3. One-Lung Ventilation
 - 1.1.4. New Analgesic Blockades
 - 1.1.5. Technological Advances
 - 1.1.5.1. Thoracoscopic Surgery (VATS)
 - 1.1.5.2. Robotic Surgery
- 1.2. Pre-anesthetic Assessment in Minimally Invasive Surgery
 - 1.2.1. Identification of Risk Factors
 - 1.2.1.1. Risk Assessment Scales
 - 1.2.1.2. Immediate Postoperative Complications
 - 1.2.1.3. Respiratory Factors
 - 1.2.1.4. Cardiovascular Factors
 - 1.2.1.5. Metabolic Risk Factors and Comorbidities
 - 1.2.2. Pulmonary Function Tests
 - 1.2.2.1. Respiratory Function Tests
 - 1.2.2.2. Unilateral Function Tests
 - 1.2.2.3. Stress Tests
 - 1.2.3. Optimization of the Patient's General Condition
 - 1.2.3.1. Respiratory Optimization
 - 1.2.3.2. Cardiovascular Optimization
 - 1.2.3.3. Metabolic and Nutritional Optimization
 - 1.2.3.4. Optimization of Preoperative Anemia
 - 1.2.3.5. Respiratory Physiotherapy
 - 1.2.3.5.1. Rehabilitation
 - 1.2.3.5.2. Psychological Support
- 1.3. Minimally Invasive Anesthetic Management of the Thoracic Patient
 - 1.3.1. Anesthetic Techniques
 - 1.3.1.1. General Anesthesia
 - 1.3.1.2. One-Lung Ventilation
 - 1.3.1.3. Protective Lung Ventilation
 - 1.3.2. Monitoring
 - 1.3.2.1. Standard Monitoring
 - 1.3.2.2. Diuresis
 - 1.3.2.2.1. Anesthetic Depth
 - 1.3.2.2.2. Progressive Muscle Relaxation. Temperature
 - 1.3.3. Others. Positioning
 - 1.3.3.1. Fluid Therapy
 - 1.3.3.2. Multimodal Analgesia
- 1.4. Airway Management: Double-Lumen Tube Placement
 - 1.4.1. Background and Evolution of Double-Lumen Tube in Minimally Invasive Surgery
 - 1.4.2. Indications for the Use of Double-Lumen Tubes
 - 1.4.2.1. Advantages and Disadvantages of the Use of Double-Lumen Tubes
 - 1.4.3. Types of Double-Lumen Tubes
 - 1.4.3.1. With Camera
 - 1.4.3.2. Without Camera
 - 1.4.3.3. Positioning of Double-Lumen Tubes
- 1.5. Airway Management: Bronchial Blockers and Endotracheal Intubation
 - 1.5.1. Background and Evolution of Bronchial Blockers in Minimally Invasive Surgery
 - 1.5.2. Indications for the Use of Bronchial Blockers
 - 1.5.2.1. Difficult Airway in One-Lung Ventilation
 - 1.5.2.2. Segmental Pulmonary Isolation
 - 1.5.2.3. One-Lung Ventilation in Pediatric Patients or Patients of Small Stature
 - 1.5.2.4. Altered Tracheobronchial Anatomy
 - 1.5.3. Types of Bronchial Blockers
 - 1.5.3.1. Independent
 - 1.5.3.2. Incorporated into the Endotracheal Tube
 - 1.5.3.3. Advantages and Disadvantages of Using Bronchial Blockers
 - 1.5.3.4. Positioning of Bronchial Blockers

- 1.6. Airway Management: Thoracic Surgery Without Intubation
 - 1.6.1. Preoperative Assessment. Inclusion and Exclusion Criteria
 - 1.6.2. Intraoperative Anesthetic Management
 - 1.6.2.1. Monitoring
 - 1.6.2.2. Airway Management
 - 1.6.2.3. Anesthetic Induction
 - 1.6.2.4. Postoperative Pain Management
 - 1.6.3. Postoperative Care. Complications
- 1.7. Airway Management: Intraoperative Bronchoscopy
 - 1.7.1. Anatomy of the Tracheobronchial Tree
 - 1.7.2. Indications for Intraoperative Bronchoscopy
 - 1.7.2.1. Placement and Verification of the Lung Isolation Device
 - 1.7.2.2. Readjustment of Lung Isolation
 - 1.7.2.3. Control of Intraoperative Secretions and Bleeding
 - 1.7.2.4. Detection and Handling of Intraoperative Complications
 - 1.7.2.5. Guidance in Complex Surgeries
 - 1.7.2.6. Confirmation of Bronchial Patency after Resection
 - 1.7.2.7. Evaluation of Bronchial Leaks
 - 1.7.2.8. Assistance in the Management of Bronchopleural Fistulas
 - 1.7.3. Management of Fiberoptic Bronchoscopy in the Difficult Airway
- 1.8. Analgesic Management: Spinal Erector Plane Block and Other Selective Blockades
 - 1.8.1. Pain in Minimally Invasive Thoracic Surgery. Anatomy of the Thoracic Wall
 - 1.8.2. Intercostal Blockade
 - 1.8.3. Interfascial Blockade
 - 1.8.3.1. Features
 - 1.8.3.2. Types of Blockades
 - 1.8.3.2.1. Erector Spinal Blockade
 - 1.8.3.2.2. Serratus Plane Blockade PECS Blockade

- 1.9. Analgesic Management: Epidural and Paravertebral Blockade
 - 1.9.1. Epidural Blockade. Effects. Complications
 - 1.9.2. Paravertebral Blockade. Techniques. Complications
 - 1.9.3. Comparison of Epidural Blockade vs. Paravertebral Blockade
- 1.10. Postoperative and Discharge Analgesic Management
 - 1.10.1. Pain Assessment
 - 1.10.1.1. One-dimensional Scales
 - 1.10.1.2. Multidimensional Scales
 - 1.10.2. Multimodal Pain Management
 - 1.10.2.1. Analgesics
 - 1.10.2.2. Regional Techniques
 - 1.10.2.3. Adjuvant Drugs
 - 1.10.3. Chronic Post-Thoracotomy Pain
 - 1.10.3.1. Incidence
 - 1.10.3.2. Risk Factors



Not only will you learn at your own pace, but you will also have access to interactive materials, real case studies and direct guidance from teachers with extensive experience in Anaesthesia in Thoracic Surgery”

04

Teaching Objectives

This Postgraduate Certificate will offer professionals specialized education that will enable them to master the most advanced techniques in anesthesia applied to this type of surgical intervention. Throughout the Postgraduate Certificate, they will develop a series of key skills that will enable them to provide comprehensive and specialized care to patients undergoing minimally invasive thoracic procedures. In turn, they will acquire skills in the anesthetic management of complex thoracic procedures, from preoperative preparation to postoperative management of the patient. Finally, they will know how to apply advanced anesthesia techniques in surgeries such as lobar lung resections, thoracic biopsies and other minimally invasive interventions.



“

TECH focuses on providing you with practical and theoretical education that will allow you to integrate the latest advances in Minimally Invasive Thoracic Anesthesia into your professional practice, improving the quality of care”



General Objectives

- ♦ Develop skills in the preoperative assessment of patients for Minimally Invasive Thoracic Surgery
- ♦ Apply advanced anaesthesia techniques in minimally invasive thoracic interventions
- ♦ Optimize hemodynamic and respiratory monitoring in thoracic procedures
- ♦ Manage postoperative pain effectively in Thoracic Surgery
- ♦ Identify and address potential anaesthetic complications during minimally invasive interventions
- ♦ Integrate the use of advanced technology in Minimally Invasive Thoracic Anesthesia
- ♦ Improve patient safety through rigorous anesthetic planning
- ♦ Apply personalized anesthesia strategies in patients with comorbidities or high risks





Specific Objectives

- ♦ Master the specific anesthesia techniques used in minimally invasive thoracic procedures, taking into account the physiological characteristics of the patient during surgery
- ♦ Identify and manage the most frequent anesthetic complications in thoracic surgery, applying strategies based on scientific evidence
- ♦ Optimize the use of mechanical ventilation and intraoperative respiratory management to minimize risks and improve surgical outcomes
- ♦ Design personalized anesthetic management plans that integrate the use of advanced technologies, regional block techniques and postoperative care focused on accelerated patient recovery



TECH's comprehensive syllabus and online modality offer you the convenience and excellence you need to advance your career, while transforming the way you acquire knowledge"

05 Study Methodology

TECH is the world's first university to combine the **case study** methodology with **Relearning**, a 100% online learning system based on guided repetition.

This disruptive pedagogical strategy has been conceived to offer professionals the opportunity to update their knowledge and develop their skills in an intensive and rigorous way. A learning model that places students at the center of the educational process giving them the leading role, adapting to their needs and leaving aside more conventional methodologies.



“

TECH will prepare you to face new challenges in uncertain environments and achieve success in your career”

The student: the priority of all TECH programs

In TECH's study methodology, the student is the main protagonist.

The teaching tools of each program have been selected taking into account the demands of time, availability and academic rigor that, today, not only students demand but also the most competitive positions in the market.

With TECH's asynchronous educational model, it is students who choose the time they dedicate to study, how they decide to establish their routines, and all this from the comfort of the electronic device of their choice. The student will not have to participate in live classes, which in many cases they will not be able to attend. The learning activities will be done when it is convenient for them. They can always decide when and from where they want to study.

“

*At TECH you will NOT have live classes
(which you might not be able to attend)”*



The most comprehensive study plans at the international level

TECH is distinguished by offering the most complete academic itineraries on the university scene. This comprehensiveness is achieved through the creation of syllabi that not only cover the essential knowledge, but also the most recent innovations in each area.

By being constantly up to date, these programs allow students to keep up with market changes and acquire the skills most valued by employers. In this way, those who complete their studies at TECH receive a comprehensive education that provides them with a notable competitive advantage to further their careers.

And what's more, they will be able to do so from any device, pc, tablet or smartphone.

“*TECH's model is asynchronous, so it allows you to study with your pc, tablet or your smartphone wherever you want, whenever you want and for as long as you want*”

Case Studies and Case Method

The case method has been the learning system most used by the world's best business schools. Developed in 1912 so that law students would not only learn the law based on theoretical content, its function was also to present them with real complex situations. In this way, they could make informed decisions and value judgments about how to resolve them. In 1924, Harvard adopted it as a standard teaching method.

With this teaching model, it is students themselves who build their professional competence through strategies such as Learning by Doing or Design Thinking, used by other renowned institutions such as Yale or Stanford.

This action-oriented method will be applied throughout the entire academic itinerary that the student undertakes with TECH. Students will be confronted with multiple real-life situations and will have to integrate knowledge, research, discuss and defend their ideas and decisions. All this with the premise of answering the question of how they would act when facing specific events of complexity in their daily work.



Relearning Methodology

At TECH, case studies are enhanced with the best 100% online teaching method: Relearning.

This method breaks with traditional teaching techniques to put the student at the center of the equation, providing the best content in different formats. In this way, it manages to review and reiterate the key concepts of each subject and learn to apply them in a real context.

In the same line, and according to multiple scientific researches, reiteration is the best way to learn. For this reason, TECH offers between 8 and 16 repetitions of each key concept within the same lesson, presented in a different way, with the objective of ensuring that the knowledge is completely consolidated during the study process.

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.



A 100% online Virtual Campus with the best teaching resources

In order to apply its methodology effectively, TECH focuses on providing graduates with teaching materials in different formats: texts, interactive videos, illustrations and knowledge maps, among others. All of them are designed by qualified teachers who focus their work on combining real cases with the resolution of complex situations through simulation, the study of contexts applied to each professional career and learning based on repetition, through audios, presentations, animations, images, etc.

The latest scientific evidence in the field of Neuroscience points to the importance of taking into account the place and context where the content is accessed before starting a new learning process. Being able to adjust these variables in a personalized way helps people to remember and store knowledge in the hippocampus to retain it in the long term. This is a model called Neurocognitive context-dependent e-learning that is consciously applied in this university qualification.

In order to facilitate tutor-student contact as much as possible, you will have a wide range of communication possibilities, both in real time and delayed (internal messaging, telephone answering service, email contact with the technical secretary, chat and videoconferences).

Likewise, this very complete Virtual Campus will allow TECH students to organize their study schedules according to their personal availability or work obligations. In this way, they will have global control of the academic content and teaching tools, based on their fast-paced professional update.



The online study mode of this program will allow you to organize your time and learning pace, adapting it to your schedule”

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 assess 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.

The university methodology top-rated by its students

The results of this innovative teaching model can be seen in the overall satisfaction levels of TECH graduates.

The students' assessment of the teaching quality, the quality of the materials, the structure of the program and its objectives is excellent. Not surprisingly, the institution became the top-rated university by its students according to the global score index, obtaining a 4.9 out of 5.

Access the study contents from any device with an Internet connection (computer, tablet, smartphone) thanks to the fact that TECH is at the forefront of technology and teaching.

You will be able to learn with the advantages that come with having access to simulated learning environments and the learning by observation approach, that is, Learning from an expert.



As such, the best educational materials, thoroughly prepared, will be available in this program:



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.



Practicing Skills and Abilities

You will carry out activities to develop specific competencies and skills in each thematic field. Exercises and activities to acquire and develop the skills and abilities that a specialist needs to develop within the framework of the globalization we live in.



Interactive Summaries

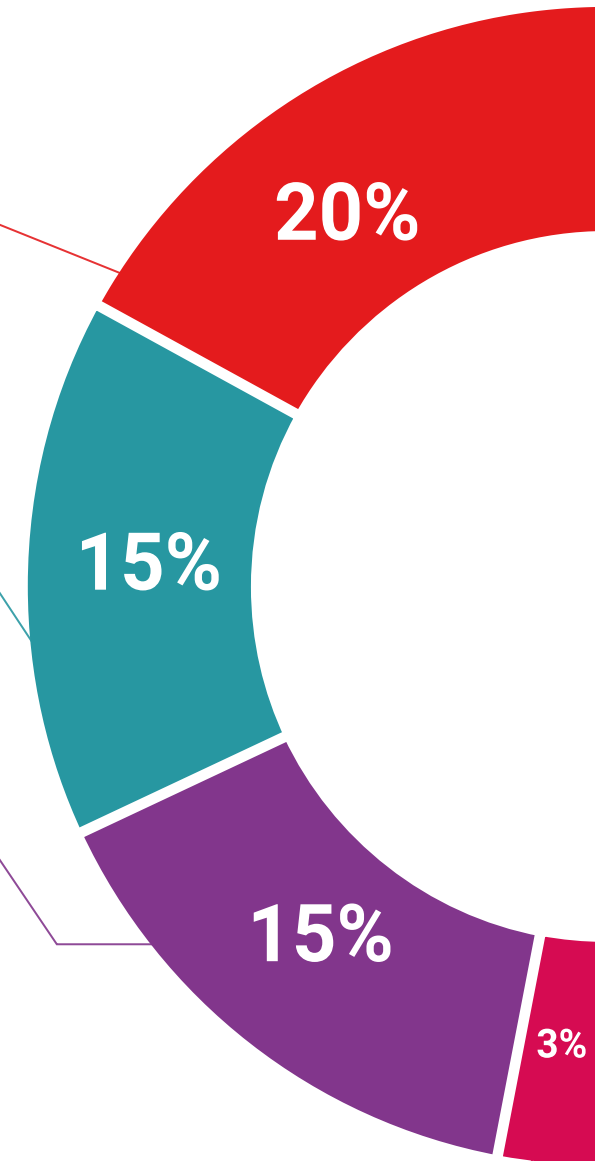
We present the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

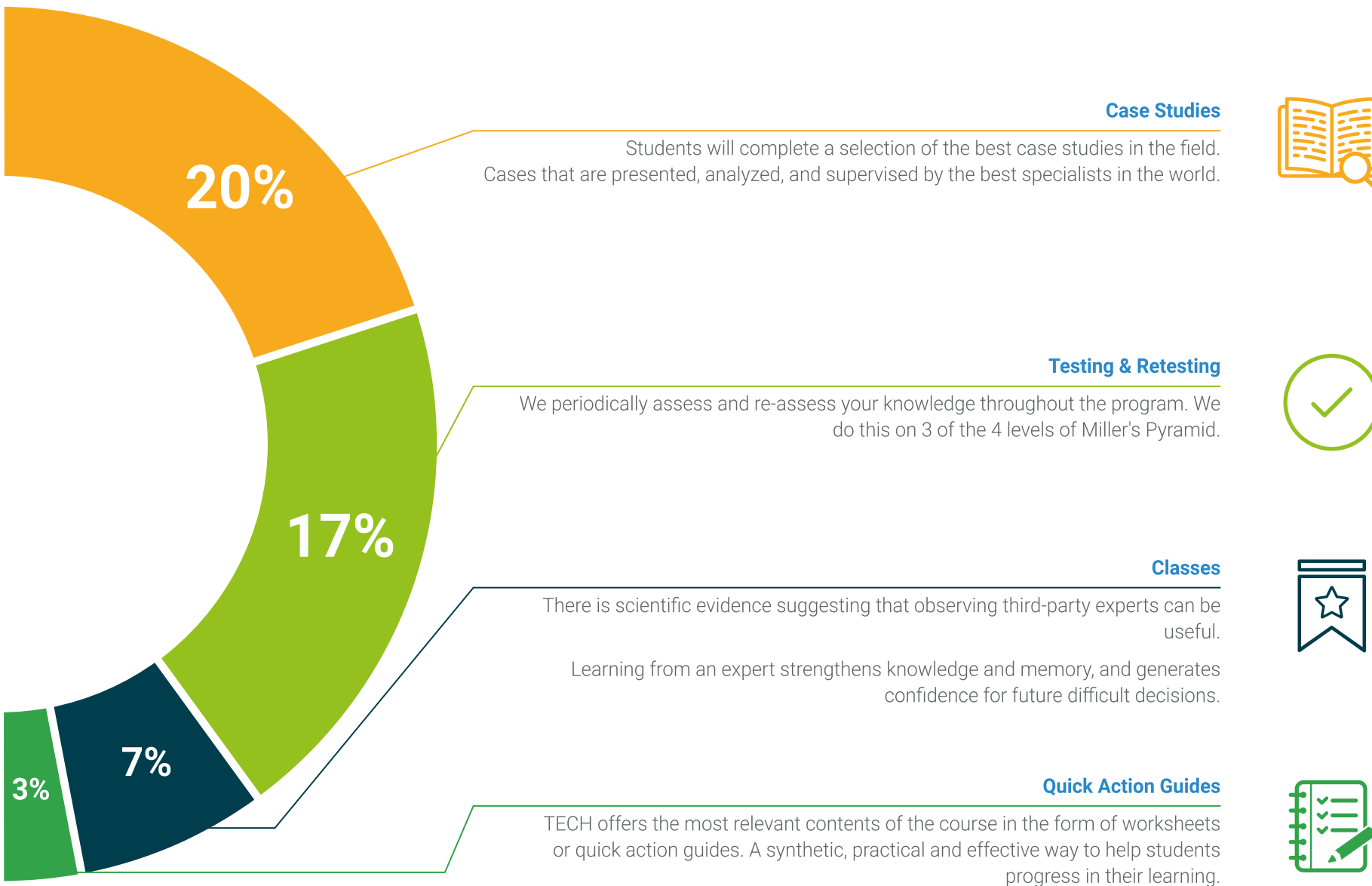
This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



Additional Reading

Recent articles, consensus documents, international guides... In our virtual library you will have access to everything you need to complete your education.





06

Teaching Staff

The teaching staff of this Postgraduate Certificate is made up of professionals of renowned prestige in the field of Anesthesia and Thoracic Surgery. With a solid academic background and extensive clinical experience, the mentors are experts who not only have a deep theoretical understanding, but also invaluable practice acquired in internationally renowned hospitals and health centers. In this way, students will stay at the forefront of the latest advances in anesthetic techniques for Thoracic Surgery, including the most recent innovations in minimally invasive procedures.



“

Thanks to their close and personalized approach, graduates will receive dynamic education geared towards solving real problems in the clinical environment, ensuring an exceptional academic experience”

Management



Dr. Martínez Hernández, Néstor J.

- ♦ President of the Scientific Advisory Office of the Spanish Society of Thoracic Surgery (SECT)
- ♦ Coordinator of the Scientific Committee of the Spanish Society of Thoracic Surgery
- ♦ Thoracic Surgeon at the University Hospital La Ribera
- ♦ Thoracic Surgeon Editor of Cirugía Española in Elsevier
- ♦ Guest Editor at the Journal of Visualized Experiments
- ♦ Associate Professor at the Department of Respiratory Medicine, Faculty of Medicine, Catholic University of Valencia
- ♦ Thoracic Surgeon at the Manises Hospital
- ♦ Visiting Physician at Cedars-Sinai Medical Center
- ♦ Resident Medical Intern at the General University Hospital of Valencia
- ♦ Visiting Physician at Mount Sinai Hospital, New York, United States
- ♦ Visiting Physician at Yale New Haven Hospital, United States
- ♦ Doctor of Medicine and Surgery from the University of Valencia
- ♦ Degree in Medicine and Surgery from the University of Valencia
- ♦ Specialist in Thoracic Surgery
- ♦ Extraordinary Doctorate Award from the University of Valencia
- ♦ Antonio Caralps y Masso Award of the SECT for the Best Communication in Thoracic Surgery
- ♦ First Prize of IX Edition to the Best Specialist in Training at the Gregorio Marañón General University Hospital
- ♦ Member of: European Society for Thoracic Surgery (ESTS), Spanish Society of Thoracic Surgery (SECT), Spanish Society of Pulmonology and Thoracic Surgery (SEPAR), Valencian Society of Pulmonology (SVN)



Dr. Quero Valenzuela, Florencio

- Chief of the Thoracic Surgery Department at the Virgen de las Nieves University Hospital
- Specialist Physician in Thoracic Surgery at the Virgen de las Nieves University Hospital
- Specialist Physician in Thoracic Surgery at the Virgen Macarena University Hospital
- Member of the Ae22-Cancer Genetics, Biomarkers and Experimental Therapies Research Group
- Doctor of Surgery from the University of Granada
- Master's Degree in Clinical Unit Management from the University of Murcia
- Expert in Epidemiology and Clinical Research from the University of Granada
- Bachelor's Degree in Medicine and Surgery from the University of Granada

Professors

Dr. Sánchez García, Fernando

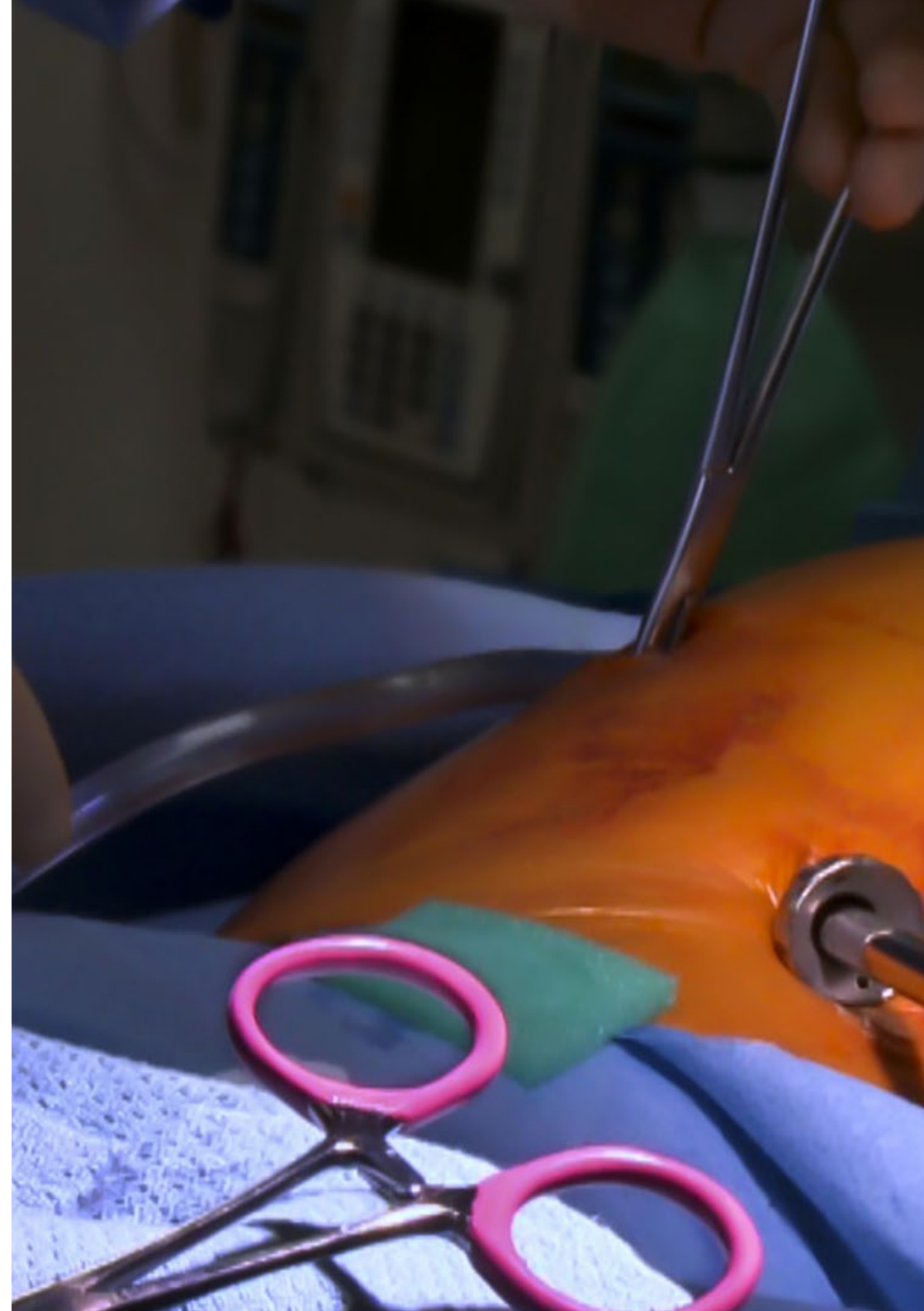
- ♦ Physician Specialist in Anesthesiology and Resuscitation at La Ribera University Hospital
- ♦ Manager at La Ribera University Hospital
- ♦ Expert in Pain Therapy
- ♦ Bachelor of Medicine

Dr. Aragón Álvarez, Sonsoles

- ♦ Specialist in Anesthesiology and Resuscitation, UR Hospital
- ♦ Scientific researcher specialized in the study of the effect of medication on patients with anxiety
- ♦ Doctor of Medicine from the University of Valencia
- ♦ Bachelor of Medicine from the Autonomous University of Valencia

Dr. Miñana Aragón, Encarna

- ♦ Attending Physician of Anesthesiology, Resuscitation and Pain Therapy at the University Hospital of La Ribera
- ♦ Attending Physician in Anesthesiology, Resuscitation and Pain Therapy at La Fe University Hospital in Valencia
- ♦ Attending Physician in Anesthesiology at Malva-Rosa Hospital
- ♦ Specialist in Anesthesiology, Resuscitation and Pain Therapy at La Fe University Hospital in Valencia
- ♦ Doctor of Medicine from the Autonomous University of Barcelona
- ♦ Bachelor of Medicine and Surgery from the Autonomous University of Barcelona





“

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

07 Certificate

This Postgraduate Certificate in Anesthesia in Minimally Invasive Thoracic Surgery guarantees, in addition to the most rigorous and up-to-date program, access to an Postgraduate Certificate diploma issued by TECH Global University.



“

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

This private qualification will allow you to obtain a diploma for the **Postgraduate Certificate in Anesthesia in Minimally Invasive Thoracic Surgery** 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** private qualification, 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 Certificate in Anesthesia in Minimally Invasive Thoracic Surgery

Modality: online

Duration: 6 weeks

Accreditation: 6 ECTS





Postgraduate Certificate
Anesthesia in Minimally
Invasive Thoracic Surgery

- » Modality: online
- » Duration: 6 weeks
- » Certificate: TECH Global University
- » Accreditation: 6 ECTS
- » Schedule: at your own pace
- » Exams: online

Postgraduate Certificate

Anesthesia in Minimally Invasive Thoracic Surgery

