

Postgraduate Certificate

Surgical Indications in Minimally Invasive Thoracic Surgery





Postgraduate Certificate

Surgical Indications 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.techtute.com/us/medicine/postgraduate-certificate/surgical-indications-minimally-invasive-thoracic-surgery

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01

Introduction to the Program

Minimally Invasive Thoracic Surgery has revolutionized the surgical management of various lung, mediastinal and pleural diseases, establishing itself as a safe and effective alternative to traditional techniques. According to data from the World Health Organization (WHO), approximately 70% of patients with early-stage lung cancer treated using minimally invasive techniques experience results equivalent to or superior to open techniques in terms of long-term survival. Taking into account the importance of this field, TECH has developed this Postgraduate Certificate, which will analyze the main surgical indications, backed by recent clinical evidence and their impact on global surgical practice. All of this will be addressed using a 100% methodology and a completely up-to-date syllabus. All of this will be addressed using a 100% methodology and a completely up-to-date syllabus.





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You will discover the latest innovations in Minimally Invasive Thoracic Surgery and take your career to the next level. Enroll now for this online qualification and revolutionize your medical practice!”

Minimally Invasive Thoracic Surgery has become an essential tool for addressing various lung and mediastinal pathologies with precision and less impact on the patient. In this context, the surgical approach allows complex procedures such as lobectomies, thymectomies and lung nodule resections to be carried out, significantly reducing morbidity and recovery time.

In view of this, TECH has developed this program on Surgical Indications in Minimally Invasive Thoracic Surgery, designed to broaden the skills of healthcare professionals in this area.

Based on a comprehensive and multidisciplinary approach, it will cover everything from the fundamentals of thoracic surgery to the latest advances in minimally invasive techniques. Subsequently, emphasis will be placed on topics such as preoperative assessment, advanced surgical techniques and the management of intraoperative complications. Similarly, the content will include specific modules on robotic surgery, mediastinal management and the approach to pleural diseases. This academic design will ensure that doctors acquire a complete and up-to-date vision of the thoracic surgical field.

Completing this program will not only represent an opportunity for educational updating, but also a springboard for accessing new professional possibilities. In short, the knowledge acquired will allow graduates to specialize in high-demand techniques, improving their professional profile and their ability to lead surgical teams in world-class hospitals. In addition, they will master cutting-edge procedures, such as video-assisted thoracoscopy, increasing their competitiveness in the global labor market.

Finally, TECH's 100% online modality will offer unparalleled flexibility, allowing students to manage their education without giving up their professional or personal commitments. In turn, this will be complemented by the Relearning methodology, based on the reiteration of key concepts, which facilitates a progressive and efficient assimilation of the content, guaranteeing a dynamic experience adapted to current needs.

This **Postgraduate Certificate in Surgical Indications 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 practical cases presented by experts with a deep knowledge of Surgical Indications 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 self-assessment process can be carried out 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



You will learn from anywhere, at your own pace and with the best online resources. Your specialization has never been so accessible! Enroll now and become an expert who will make a difference in the medical field"

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You will learn from the best experts in Thoracic Surgery and master the most advanced surgical indications. The online methodology will allow you to educate yourself without sacrificing your time or comfort. Get started with TECH today!

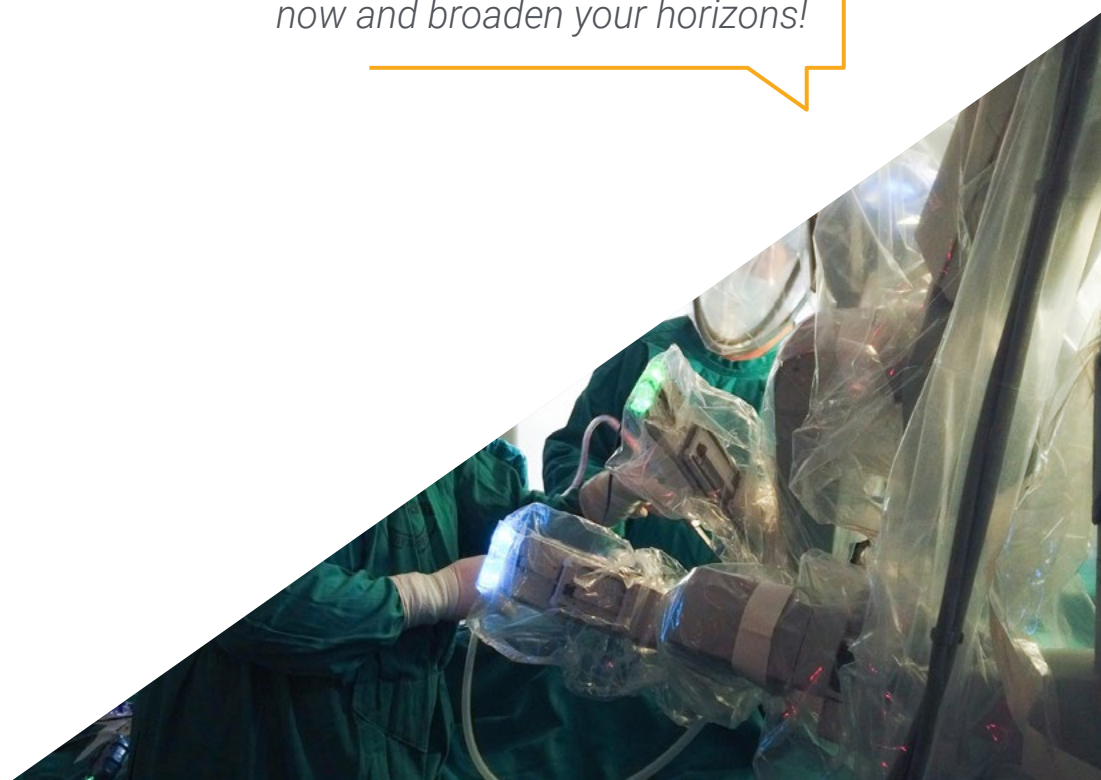
The program's teaching staff includes professionals from the sector who contribute their work experience to this specializing program, as well as renowned specialists from leading societies and prestigious universities.

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.

Your specialization in Thoracic Surgery is just a click away! With innovative methodologies, an up-to-date syllabus and multimedia materials, you will be prepared to lead in the Medicine of the future.

Delve into the fascinating field of Minimally Invasive Thoracic Surgery with a syllabus designed to transform your daily medical practice. Enroll now and broaden your horizons!



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.



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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

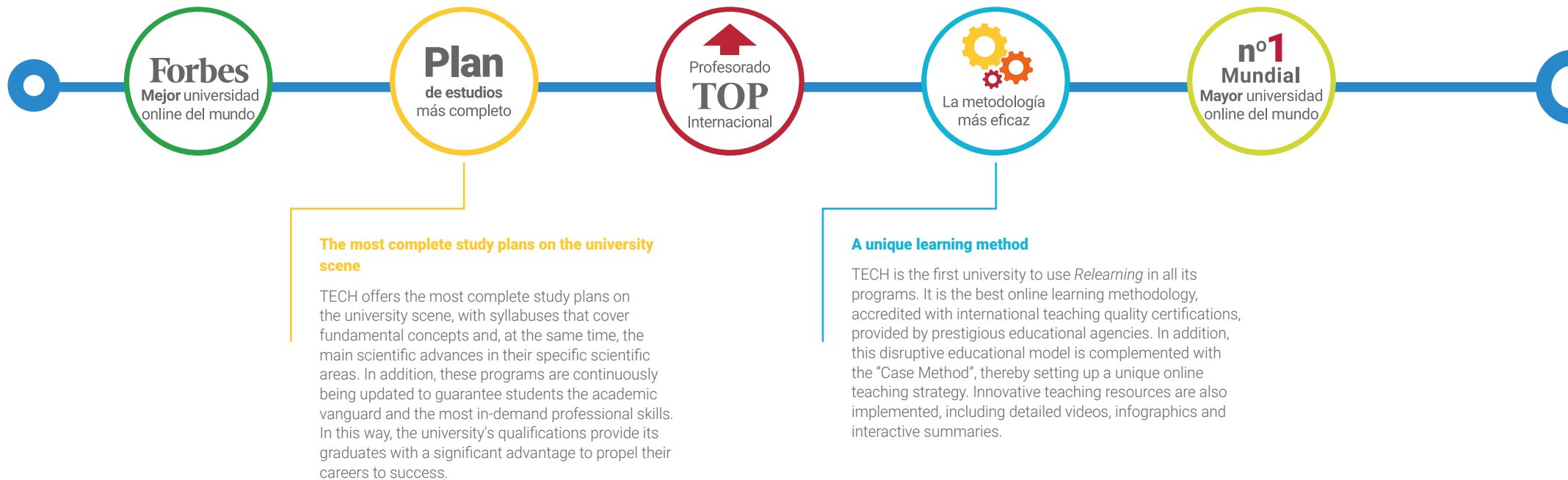
The prestigious Forbes magazine, specialized in business and finance, has highlighted TECH as "the world's best online university". This is what they have recently stated in an article in their digital edition in which they echo the success story of this institution, "thanks to the academic offer it 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 health professionals the tools necessary to master the most advanced techniques in this field. Through an up-to-date syllabus based on the latest scientific research, they will delve into the appropriate procedures for each patient, the optimization of results and the reduction of risks. In addition, they will delve into postoperative management, strategies to minimize complications and the latest innovations in Thoracic Surgery, including the use of robotic technology and the integration of Artificial Intelligence in diagnosis and treatment.

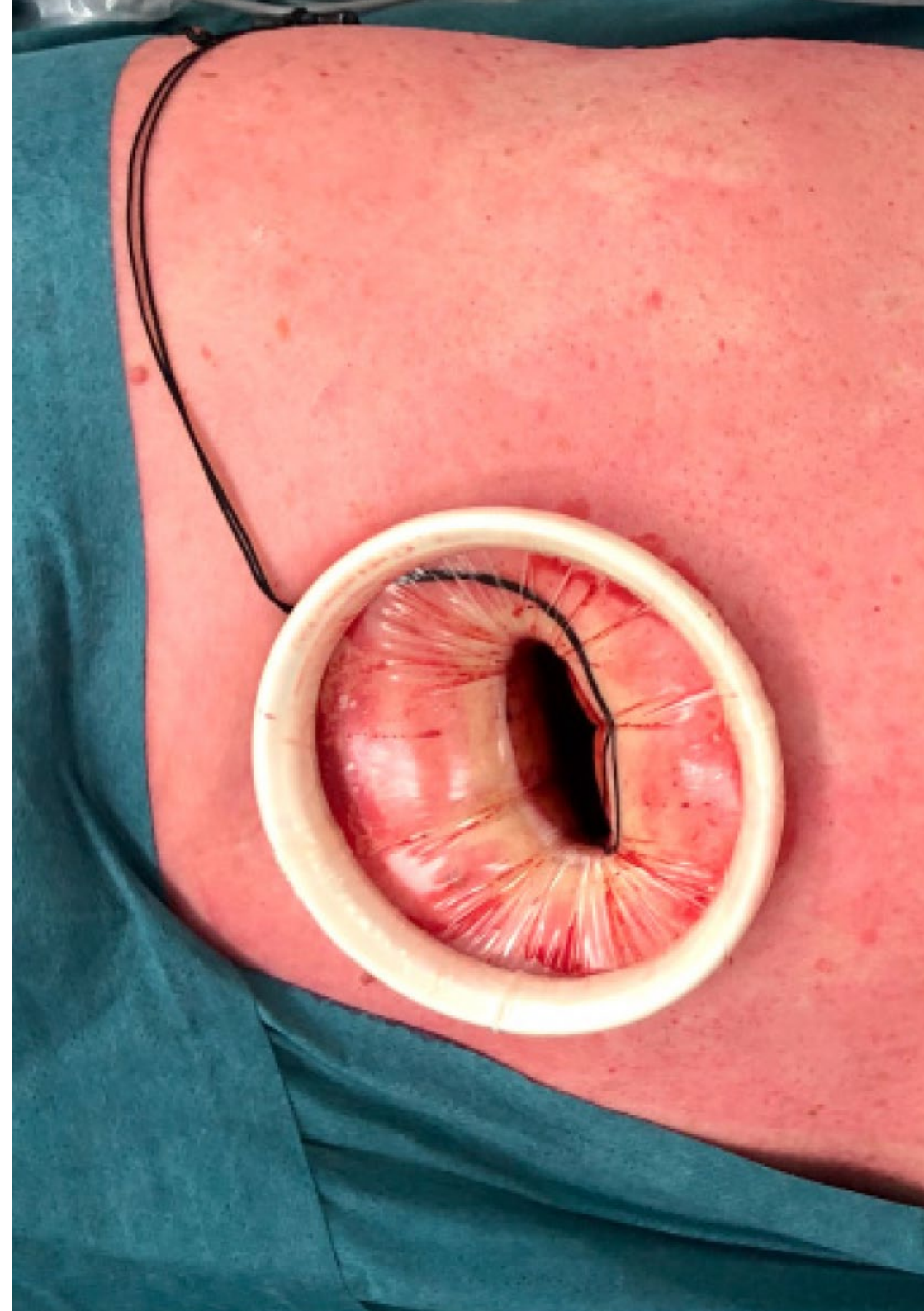


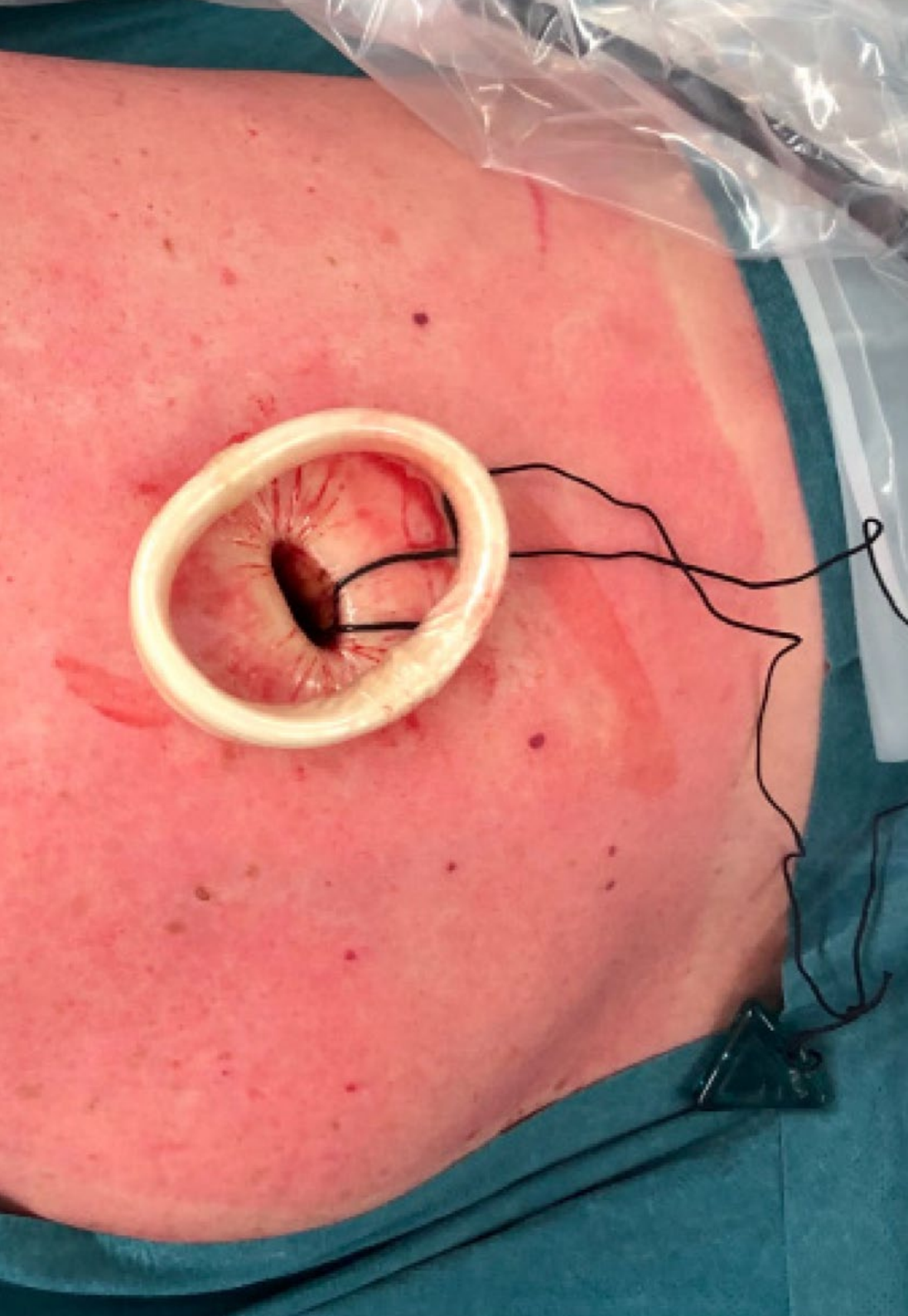
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It's time to take the next step towards professional excellence! With a completely up-to-date syllabus, you will advance your medical career and offer innovative solutions to your patients”

Module 1. Surgical Indications in Minimally Invasive Thoracic Surgery

- 1.1. From Pleuroscopy to Sublobar Resections. Historical Development
 - 1.1.1. Pleuroscopy. Videothoracoscopy in Pleural Disease and Wedge Resections
 - 1.1.2. Lobectomies and Pneumonectomies. Anatomical Segmentectomies
 - 1.1.3. Contribution of Robotic Surgery to the Improvement of Resectability through Minimally Invasive Techniques
- 1.2. Neoplastic Lung Disease. Treatment
 - 1.2.1. Treatment in Neoplastic Lung Disease
 - 1.2.2. Treatment Contraindications
 - 1.2.3. Key Points for Each Indication. Current State of the Art
- 1.3. Neoplastic Lung Disease. Treatment
 - 1.3.1. Benign Neoplasms
 - 1.3.2. Pleural Metastases
 - 1.3.3. Malignant Pleural Mesothelioma
 - 1.3.4. Management of Malignant Pleural Effusion
- 1.4. Mediastinal Tumor. Treatment
 - 1.4.1. Anterior Mediastinal Tumors. Posterior Mediastinal Tumors
 - 1.4.2. Mediastinoscopy and Mediastinotomy. TEMPLA. VAMLA
 - 1.4.3. Lymphadenectomy in Lung Cancer.
- 1.5. Thoracic Wall Disease. Treatment
 - 1.5.1. Thoracic Wall Deformities
 - 1.5.2. First Rib Resection
 - 1.5.3. Malignant Tumor Resection of the Thoracic Wall
 - 1.5.4. Benign Tumor Disease of the Thoracic Wall
- 1.6. Esophageal Disease. Treatment
 - 1.6.1. Achalasia
 - 1.6.2. Diverticulum
 - 1.6.3. Tumors of the Gastroesophageal Junction
 - 1.6.4. Benign Tumors of the Esophagus





- 1.7. Infectious Diseases. Treatment
 - 1.7.1. Bronchiectasis. TB. Fungal Infections. Pulmonary Hydatidosis
 - 1.7.2. Empyema
 - 1.7.3. Descending Necrotizing Mediastinitis
 - 1.7.4. Pulmonary Hydatidosis
- 1.8. Lung Malformations. Current Indications
 - 1.8.1. Pulmonary Sequestration
 - 1.8.2. Cystic Adenomatoid Malformation
 - 1.8.3. Congenital Lobar Emphysema
 - 1.8.4. Bronchogenic Cysts
- 1.9. Other Specifications in Minimally Invasive Thoracic Surgery
 - 1.9.1. Surgery of the Diaphragm
 - 1.9.2. Pericardial Disease. Cardiac Surgery
 - 1.9.3. Thoracic Spine Procedures
- 1.10. General Contraindications in Minimally Invasive Surgery
 - 1.10.1. Contraindications of the Multiport VATS Approach
 - 1.10.2. Contraindications of Robotic Approaches
 - 1.10.3. Alternatives to the Minimally Invasive Approach: Hybrid Approaches

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With solid and advanced education, this program is the gateway to a professional future full of opportunities in the field of Minimally Invasive Thoracic Surgery”

04

Teaching Objectives

The main objective of this program is to equip healthcare professionals with the most advanced techniques in Thoracic Surgery, providing them with the necessary tools to carry out precise assessments and make informed surgical decisions. Firstly, they will learn to identify the key surgical indications for minimally invasive procedures, such as Video-Assisted Thoracoscopy (VATS), focusing on common lung and mediastinal diseases. They will also master preoperative planning, where they will acquire skills in proper patient selection, interpretation of imaging studies and optimization of lung function, all of which are essential factors for surgical success.





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TECH will prepare you to apply your knowledge in clinical settings, optimizing the care and outcomes of patients undergoing Minimally Invasive Thoracic Surgery”



General Objectives

- Master surgical indications for minimally invasive thoracic procedures
- Develop skills in the preoperative assessment of patients who are candidates for VATS
- Apply advanced video-assisted thoracoscopy (VATS) techniques in thoracic surgery
- Optimize surgical planning based on imaging studies and functional assessment
- Manage comorbidities appropriately to improve surgical outcomes
- Improve postoperative management to prevent respiratory complications and pain
- Integrate technological innovations, such as robotics, into thoracic surgical treatment
- Apply early rehabilitation strategies to accelerate postsurgical recovery





Specific Objectives

- ♦ Identify the technical details of each minimally invasive approach
- ♦ Define the differentiating aspects between conventional minimally invasive thoracic surgery and robotic surgery
- ♦ Reasonably assess the indication or contraindication of minimally invasive surgery depending on the clinical case and the type of disease
- ♦ Analyze and learn about the technical development of robotic surgery



Do you want to work successfully in hospitals, highly specialized medical centers and in multidisciplinary teams? Thanks to this program, you will contribute to improving the lung health and well-being of patients"

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.



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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.

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*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.

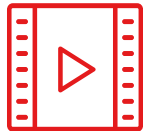
The students' assessment of the teaching quality, the quality of the materials, the structure of the program and its objectives is excellent. Not surprisingly, the institution became the top-rated university by its students according to the global score index, obtaining a 4.9 out of 5.

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

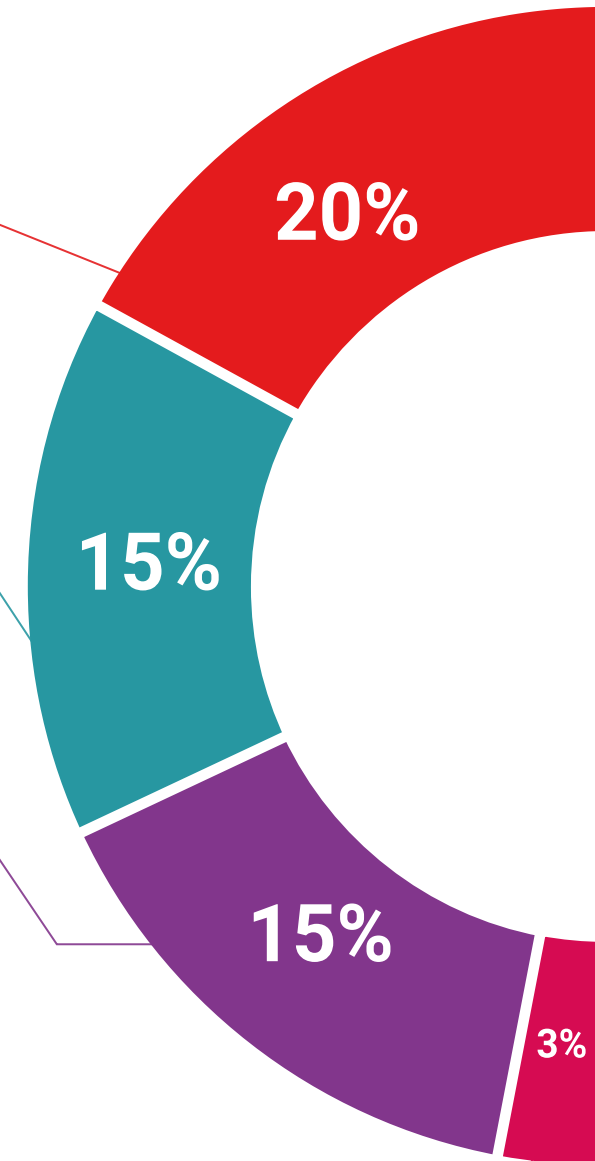
We present the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

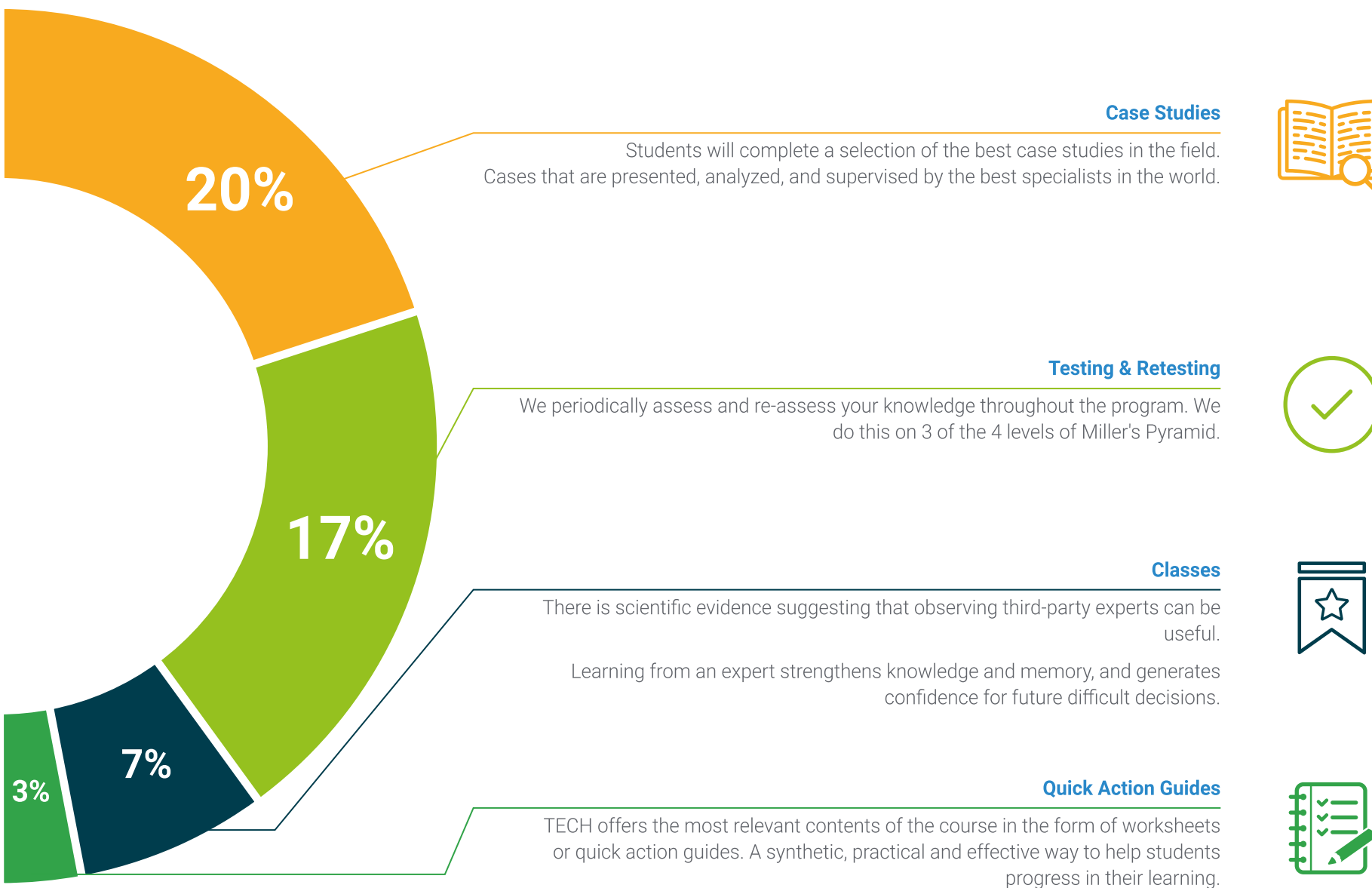
This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



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 Thoracic Surgery. In this sense, the experts, with extensive clinical and academic experience, are in charge of providing comprehensive education, focused on the most advanced techniques of Minimally Invasive Surgery, such as Video-Assisted Thoracoscopy (VATS). Thanks to their experience in internationally renowned hospitals and research centers, these mentors not only offer up-to-date theoretical knowledge, but also practical cases and examples of day-to-day life in the operating room.



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The close and personalized approach of the faculty will guarantee you a significant education, promoting your participation and the development of your skills and knowledge in this field of Medicine”

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. Campo-Cañaveral de la Cruz, José Luis

- Specialist Physician in Thoracic Surgery at the 12 de Octubre University Hospital
- Specialist Physician in Thoracic Surgery at the Puerta de Hierro University Hospital
- Medical Intern Resident in Thoracic Surgery at the Puerta de Hierro University Hospital
- Specialist in Lung Transplantation and Cardiorespiratory Support at Toronto General Hospital, Canada
- Doctor of Medicine from the Autonomous University of Madrid
- Master's Degree in Diagnosis and Treatment of Thoracic Tumors from the Autonomous University of Madrid
- Master's Degree in Clinical Management from TECH University
- Bachelor's Degree in Medicine from the Complutense University of Madrid

Dr. Meneses Pardo, José Carlos

- Medical Director of the "Evita una Muerte, Está en tus manos" Project
- Thoracic Surgeon at the 12 de Octubre University Hospital
- Thoracic Surgeon at the Torrejón University Hospital
- Specialist in Thoracic Surgery from the University of Sevilla
- Degree in Medicine from the University of Sevilla

07 Certificate

This Postgraduate Certificate in Surgical Indications 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.



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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 Surgical Indications 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 Surgical Indications in Minimally Invasive Thoracic Surgery**

Modality: **online**

Duration: **6 weeks**

Accreditation: **6 ECTS**





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