

Postgraduate Certificate

Robotic Thoracic Surgery



Postgraduate Certificate Robotic 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/robotic-thoracic-surgery

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01

Introduction to the Program

Robotic Thoracic Surgery has emerged as one of the most significant innovations in the surgical treatment of complex thoracic diseases, offering greater precision, less surgical trauma and better postoperative results. According to the Society of Thoracic Surgeons (STS), the use of robotic systems has increased by 52%, especially in procedures such as lobectomy and mediastinoscopy. Taking into account the relevance of this field, TECH has developed this comprehensive program, which will address the basic principles, clinical applications and advantages of Robotic Thoracic Surgery, as well as the challenges and future prospects in its large-scale implementation. All this, through a 100% online and innovative methodology and an up-to-date syllabus.



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Become a leader in Robotic Thoracic Surgery thanks to TECH! You will learn the most advanced techniques from the comfort of your own home, thanks to the 100% online methodology. Take your career to the next level!”

Robotic Thoracic Surgery represents one of the most significant revolutions in the medical field, allowing for high-precision surgical procedures with fewer risks for patients. This advance, driven by the incorporation of advanced technologies, has transformed the way complex thoracic diseases are approached, improving clinical outcomes and reducing recovery times. In this context, mastering these techniques is not only a necessity for surgeons, but also an opportunity to lead the future of medicine.

In response to this demand, TECH has designed this comprehensive program in Robotic Thoracic Surgery. Throughout this innovative program, designed with a comprehensive approach, topics such as preoperative planning, management of complications and applications in lung and mediastinal diseases will be studied in depth. In addition, specific aspects will be included to optimize technical skills in the use of robotic systems and to understand the most recent protocols in this field.

Likewise, specialization in Robotic Thoracic Surgery will not only guarantee an update of medical knowledge, but will also open doors to new job opportunities in cutting-edge hospitals and medical centers. For this reason, graduates will be qualified to lead surgical teams, implement these technologies in their institutions and position themselves as leaders in a field of high demand. This will allow them to stand out in a highly competitive labor market, ensuring a promising professional future.

Finally, the program will be developed in a 100% online modality, making it easier for students to balance their learning with their professional and personal responsibilities. In addition, the Relearning methodology will be implemented, based on the intelligent repetition of content, guaranteeing the effective and permanent assimilation of concepts. All the material will be available 24 hours a day, providing total flexibility to progress at each physician's own pace. In short, this combination of innovation and accessibility makes TECH the perfect ally for achieving professional excellence in this field.

This **Postgraduate Certificate in Robotic Thoracic Surgery** contains the most complete and up-to-date scientific program on the market. The most important features include:

- ♦ Practical cases presented by experts in medicine
- ♦ 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 the self-assessment process can be carried out to improve learning
- ♦ Its special emphasis on innovative methodologies in Minimally Invasive Mediastinal Surgery
- ♦ 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



Do you want to master Robotic Thoracic Surgery? At TECH, you will have access to an innovative program, available 24 hours a day, designed for you to acquire knowledge at your own pace. Enroll now!"

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You will acquire advanced skills to perform procedures such as lobectomies, pulmonary resections and thoracic injury repairs"

Its teaching staff includes professionals from the field of medicine, who bring to this program the experience of their work, 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 an immersive learning experience designed to prepare for real-life situations.

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

You will operate state-of-the-art robotic systems to perform surgical procedures with a high degree of precision.

Thanks to the Relearning system used by TECH you will reduce the long hours of study and memorization.



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

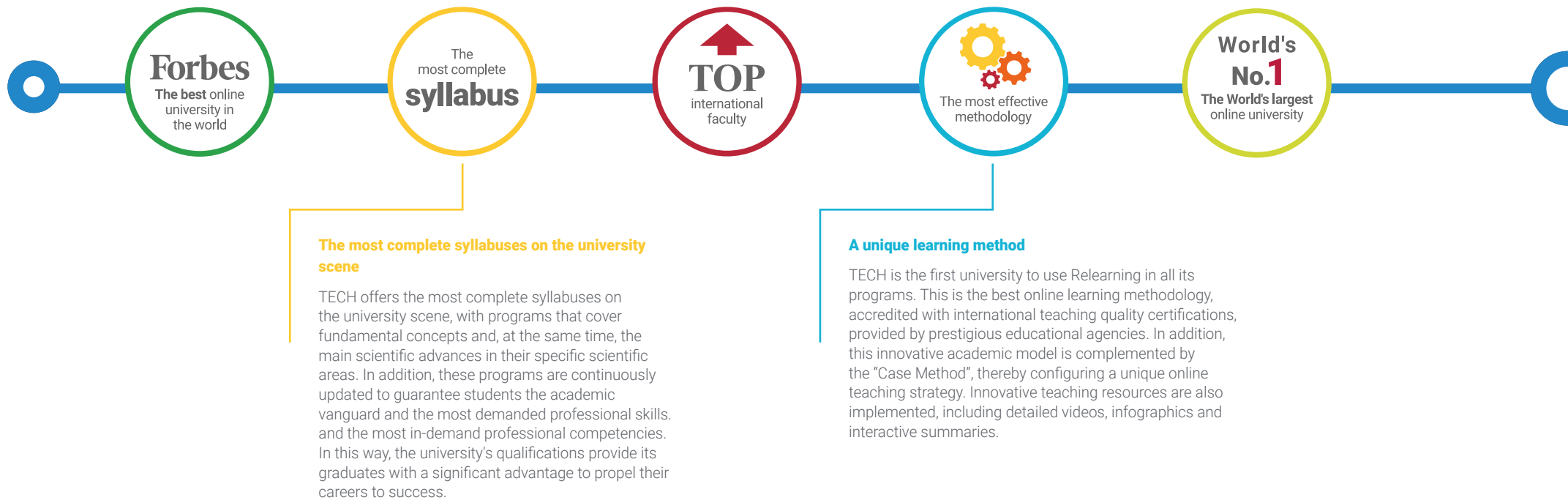
The prestigious Forbes magazine, specialized in business and finance, has highlighted TECH as "the best online university in the world" This is what they have recently stated in an article in their digital edition in which they echo the success story of this institution, "thanks to the academic offer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

The best top international faculty

TECH's faculty is made up of more than 6,000 professors of the highest international prestige. 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 digital educational catalog, one hundred percent online and covering most areas of knowledge. We offer the largest selection of our own degrees and accredited online undergraduate and postgraduate degrees. In total, more than 14,000 university programs, in ten different languages, making us the largest educational institution 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.

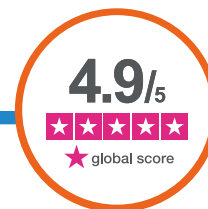
Leaders in employability

TECH has become the leading university in employability. Ninety-nine percent 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 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 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

The syllabus for this program will provide comprehensive education in all key areas of robot-assisted Thoracic Surgery. Topics to be covered include surgical techniques and protocols used in thoracic procedures, anatomy and physiology as applied to robotic surgery, and the management and control of robotic systems in the surgical setting. In addition, there will be an in-depth look at the management of postoperative complications, best practices for patient management and the latest innovations in Thoracic Cancer and lung disease surgery.



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Without a doubt, this Postgraduate Certificate represents an excellent opportunity to become a pioneer in Robotic Thoracic Surgery. TECH is the ideal way to boost your career!

Module 1. Robotic Thoracic Surgery

- 1.1. Robotic Systems, Characteristics, Components and Placement
 - 1.1.1. Components of Robotic Systems
 - 1.1.2. Differences between the Main Current Robotic Systems
 - 1.1.3. Preparation and Positioning of the Patient. General Operating Room Organization
- 1.2. Right Lobar Resections and Lymphadenectomy
 - 1.2.1. Trocar Placement
 - 1.2.2. Technical Aspects of Right Upper Lobectomy. Intrafissural. *Fisureless*
 - 1.2.3. Technical Aspects of Meddle Lobectomy
 - 1.2.4. Technical Aspects of Right Lower Lobectomy
 - 1.2.5. Tips and Tricks
- 1.3. Left Lobar Resections and Lymphadenectomy
 - 1.3.1. Trocar Placement
 - 1.3.2. Technical Aspects of Right Upper Lobectomy. Intrafissural. *Fisureless*
 - 1.3.3. Technical Aspects of Left Upper Lobectomy
 - 1.3.4. Technical Aspects of Left Lower Lobectomy
 - 1.3.5. Tips and Tricks
- 1.4. Right Sublobar Resections
 - 1.4.1. Specific Anatomical Considerations
 - 1.4.2. Technical Aspects
 - 1.4.3. Tips and Tricks
- 1.5. Left Sublobar Resections
 - 1.5.1. Specific Anatomical Considerations
 - 1.5.2. Technical Aspects
 - 1.5.3. Tips and Tricks
- 1.6. Thymus and Posterior Mediastinal Surgery
 - 1.6.1. Trocar Placement and Technical Aspects in Anterior Mediastinal Lesions
 - 1.6.2. Solid Lesions
 - 1.6.3. Myasthenia Gravis Surgery
 - 1.6.4. Trocar Placement and Technical Aspects in Posterior Mediastinal Lesions
 - 1.6.5. Tips and Tricks





- 1.7. Robotic Surgeries in Borderline Regions
 - 1.7.1. Thoracic Wall Surgery
 - 1.7.2. Surgery of the Diaphragm
 - 1.7.3. Role of Robotic Surgery in Cervicothoracic Lesions
- 1.8. Robotic Approaches: multiRATS, URATS, Bi-RATS
 - 1.8.1. Material and Technical Aspects According to Each Approach
 - 1.8.2. Advantages and Limitations of Each Approach
 - 1.8.3. New Challenges: Subxiphoid and Bilateral Robotic Approach. Application in Lung Transplantation
- 1.9. Resolution of Complications in RATS
 - 1.9.1. Ways of Reconversion: VATS vs. Open Surgery
 - 1.9.2. Emergency Protocol
 - 1.9.3. Resolution of Bronchovascular Complications
- 1.10. Development of a Robotic Surgery Program
 - 1.10.1. Initiation for Team Training
 - 1.10.2. Incorporation of Complex and Technically Demanding Surgeries
 - 1.10.3. Training of the Resident in Robotic Surgery

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You will address the benefits of Robotic Thoracic Surgery compared to other Minimally Invasive Surgery techniques, highlighting its precision, reduced trauma for the patient and accelerated recovery”

04

Teaching Objectives

The main goal of this program is to provide professionals with the necessary skills to master the most advanced techniques in Thoracic Surgery through the use of Robotics. They will develop a deep understanding of the principles and applications of Robotic Surgery, enabling them to perform complex procedures with unparalleled precision and minimal incisions. In addition, they will acquire skills in preoperative planning, intraoperative control and postoperative assessment, key areas to ensure effective and safe treatment for patients.



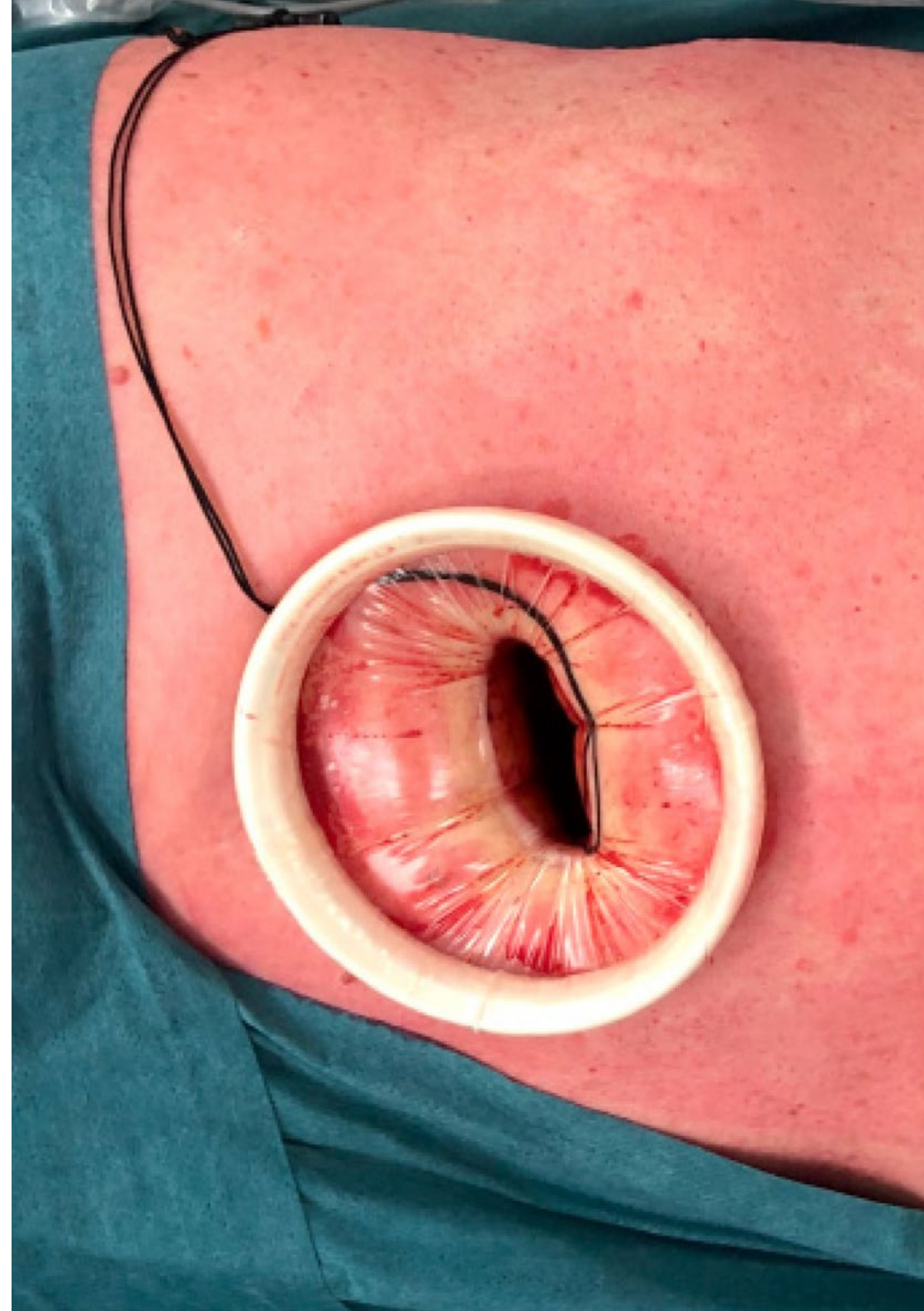
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You will establish a clear strategy and protocols for action in the event of potential complications, ensuring a safe and efficient resolution, through the best teaching materials on the educational market"



General Objectives

- ♦ Master the use of robotic systems in thoracic surgery to improve surgical precision
- ♦ Develop skills in the planning and execution of robotic surgical procedures
- ♦ Acquire advanced knowledge on the management of complications during robotic surgery
- ♦ Apply minimally invasive surgery techniques using robotic tools in thoracic surgery
- ♦ Optimize patients' postoperative recovery through the use of robotic surgery
- ♦ Improve clinical decision making based on robotic technology and scientific evidence
- ♦ Integrate robotic surgery into a multidisciplinary approach to thoracic treatment
- ♦ Evaluate the results of robotic surgery and its impact on the patient's quality of life





Specific Objectives

- ♦ Analyze the specific technical aspects of each type of thoracic surgery intervention from a robotic approach
- ♦ Detail the benefits associated with this type of approach compared to other minimally invasive surgery techniques
- ♦ Establish a strategy and protocol for action in the event of a complication in order to resolve it safely
- ♦ Develop advanced skills in the use of robotic surgery systems to reduce recovery times and minimize postoperative complications



By studying this comprehensive program, you will find new opportunities in the field of Robotic Thoracic Surgery, maintaining outstanding job placement and constant advancement in your professional career”



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.

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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.

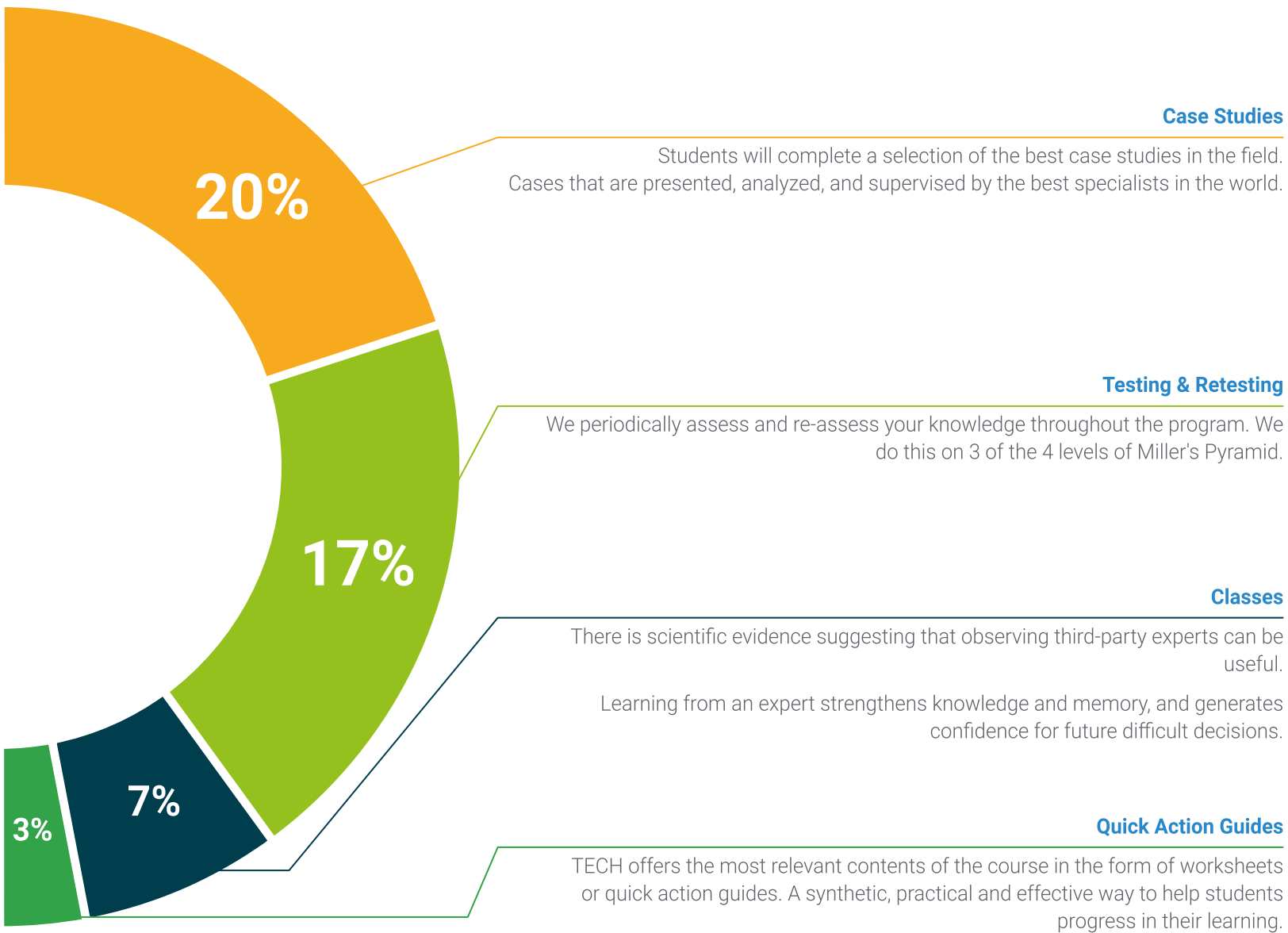
This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



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 is made up of a team of highly trained experts with a solid background in both Thoracic Surgery and the use of advanced robotic technologies. In fact, these lecturers have been selected for their extensive clinical experience, their continuous training in technological innovation and their commitment to excellence in teaching. Likewise, with outstanding international careers, they not only lead important research projects, but also participate in the development of new techniques and procedures that improve precision and safety in the operating room.



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The teaching staff of this Postgraduate Certificate not only has a high academic level and extensive professional experience, but is also deeply committed to your academic preparation in Robotic Thoracic Surgery"

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. Macía Vidueira, Iván

- President of the Tumor Commission at the Bellvitge University Hospital
- Tutor to Thoracic Surgery Residents at Bellvitge University Hospital
- Specialist Physician in Thoracic Surgery at Bellvitge University Hospital
- Intern in the Thoracic Surgery Unit at Bellvitge University Hospital
- Specialist in Thoracic Surgery at Bellvitge University Hospital
- Doctor of Medicine from the University of Barcelona
- University Expert in Thoracic Ultrasound from the University of Barcelona
- Postgraduate in Lean Practitioner from the Polytechnic University of Catalonia
- Bachelor of Medicine from the University of Barcelona

Dr. Rivas Doyague, Francisco

- Specialist Physician in Thoracic Surgery at Bellvitge University Hospital
- Specialist Physician in Thoracic Surgery at Sant Joan Hospital in Reus
- Specialty MIR in Thoracic Surgery at the Bellvitge University Hospital
- Certified in the da Vinci System by the IRCAD-EITS da Vinci Training Center, France
- University Expert in Thoracic Ultrasound by the University of Barcelona
- Degree in Medicine from the University of Valladolid

Dr. Rodríguez Taboada, Pau

- ♦ Clinical Chief of the Thoracic Surgery Service at the Joan XXIII University Hospital in Tarragona
- ♦ Coordinator of the Joint Thoracic Surgery Department at the Joan XXIII University Hospital in Tarragona and the Sant Joan University Hospital in Reus
- ♦ Associate Physician of the Thoracic Surgery Department at the Joan XXIII University Hospital in Tarragona
- ♦ Assistant Physician in the Thoracic Surgery Department at the Sant Joan University Hospital in Reus
- ♦ Member of the Catalan Thoracic Surgery Society
- ♦ Specialty MIR in Thoracic Surgery at the Bellvitge University Hospital
- ♦ Bachelor of Medicine from the University of Barcelona
- ♦ Member of: Catalan Thoracic Surgery Society





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All the lecturers on this program have extensive experience, offering you an innovative perspective on the main advances in this field of study"

07 Certificate

The Postgraduate Certificate in Robotic Thoracic Surgery guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate 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 Robotic 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 Robotic Thoracic Surgery**

Modality: **online**

Duration: **6 weeks**

Accreditation: **6 ECTS**





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Postgraduate Certificate

Robotic Thoracic Surgery

