

# Postgraduate Diploma

Lung Cancer, Tumors of the Pleura,  
Mediastinum and Thoracic Wall





## Postgraduate Diploma Lung Cancer, Tumors of the Pleura, Mediastinum and Thoracic Wall

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

Website: [www.techitute.com/us/medicine/postgraduate-diploma/postgraduate-diploma-lung-cancer-tumors-pleura-mediastinum-thoracic-wall](http://www.techitute.com/us/medicine/postgraduate-diploma/postgraduate-diploma-lung-cancer-tumors-pleura-mediastinum-thoracic-wall)

# Index

01

Introduction

---

*p. 4*

02

Objectives

---

*p. 8*

03

Course Management

---

*p. 12*

04

Structure and Content

---

*p. 26*

05

Methodology

---

*p. 30*

06

Certificate

---

*p. 38*

01

# Introduction

Lung cancer is a major health problem. In developed countries, it is the cancer with the highest mortality rate in men, while in women it is the fourth most frequent cancer and the second in terms of mortality.





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*The Postgraduate Diploma in Lung Cancer, Tumors of the Pleura, Mediastinum and Thoracic Wall contains the most complete and up-to-date scientific program on the market"*

Recent studies have reported a reduction in lung cancer mortality among current and former smokers with a minimum of 30 packs/year following the use of low-dose helical computed tomography, and have provided sufficient evidence to establish strong international recommendations for lung cancer prevention. Therefore, a more frequent future presentation of lung cancer will be via a solitary pulmonary nodule, a relevant fact given that diagnosis at advanced stages has been the norm in the last 30 years and the reason for the low prevalence of this disease.

On the other hand, the anti-smoking policies that have been implemented in the last decade are changing the profile of the patient who is usually seen in the office, and although it is not yet very evident, it will become more evident in the coming years.

Therefore, this program contains key and relevant topics for the near future in this field, such as the solitary pulmonary nodule.

Nowadays, to talk about Oncology is to talk about "multidisciplinary teams", about advances in fields of science that are increasingly involved, and this, apart from being interesting, makes continuous training necessary, which is often difficult to acquire in other specialization programs or congresses since they are oriented to a very specific area and specific to a single specialty. Not losing this multidisciplinary vision is very important because many advances in one area can have implications in the diagnostic and therapeutic algorithms used in oncology. In fact, one ability that TECH intends the students to achieve with this Postgraduate Diploma is to have a broad and clear vision of Oncology, and to use the comparison of scientific advances in each area as a tool that will allow them to advance in knowledge.

This **Postgraduate Diploma in Lung Cancer, Tumors of the Pleura, Mediastinum and Thoracic Wall** contains the most complete and up-to-date scientific program on the market. The most important features include:

- » Clinical practical cases presented by experts in the different specialties
- » 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
- » Latest developments in Lung Cancer, Tumors of the Pleura, Mediastinum, and Thoracic Wall
- » An algorithm-based interactive learning system for decision-making in the clinical situations presented throughout the course
- » With a special emphasis on evidence-based medicine and research methodologies in Lung Cancer, Tumors of the Pleura, Mediastinum and Thoracic Wall
- » All of this will be complemented by theoretical lessons, questions to the expert, debate forums on controversial topics, and individual reflection assignments
- » Content that is accessible from any fixed or portable device with an Internet connection



*Expand your knowledge through the Postgraduate Diploma in Lung Cancer, Tumors of the Pleura, Mediastinum and Thoracic Wall, in a practical way and adapted to your needs"*

“

*This Postgraduate Diploma is the best investment you can make when selecting a refresher program, for two reasons: in addition to updating your knowledge in Lung Cancer, Tumors of the Pleura, Mediastinum and Thoracic Wall, you will obtain a qualification endorsed by TECH Technological University"*

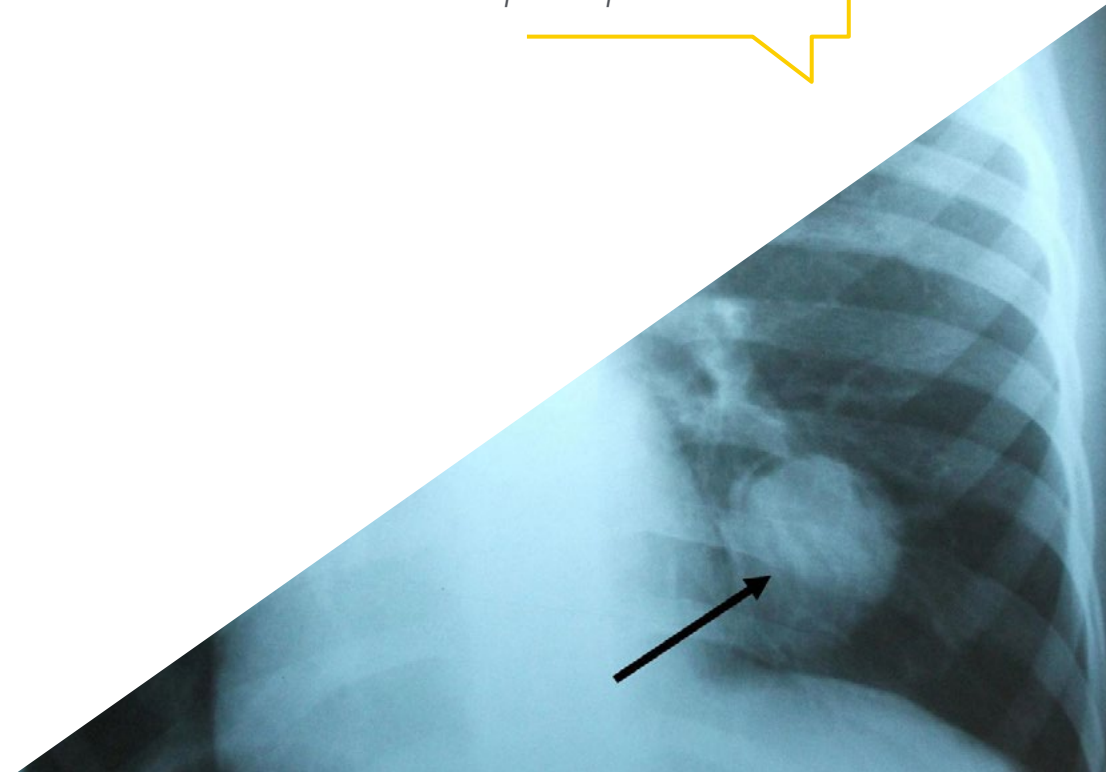
It includes in its teaching staff health professionals from the field of bioethics, who bring to this program the experience of their work, as well as recognized professionals belonging to other specialties.

Thanks to its multimedia content developed with the latest educational technology, it will allow the professional a situated and contextual learning, that is to say, a simulated environment that will provide an immersive learning programmed to study in real situations.

This program is designed around Problem-Based Learning, whereby the physician must try to solve the different professional practice situations that arise throughout the program. For this reason, they will be assisted by an innovative, interactive video system created by renowned and experienced experts in the field of thoracic oncology who have extensive teaching experience.

*Increase your decision-making confidence by updating your knowledge with this Postgraduate Diploma in Lung Cancer, Tumors of the Pleura, Mediastinum and Thoracic Wall.*

*Don't miss the opportunity to update your knowledge in Lung Cancer, Tumors of the Pleura, Mediastinum and Thoracic Wall to improve patient care.*



# 02 Objectives

The main objective of the program is the development of theoretical and practical learning, so that the physician can master in a practical and rigorous way the study of Lung Cancer, Tumors of the Pleura, Mediastinum and Thoracic Wall.







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

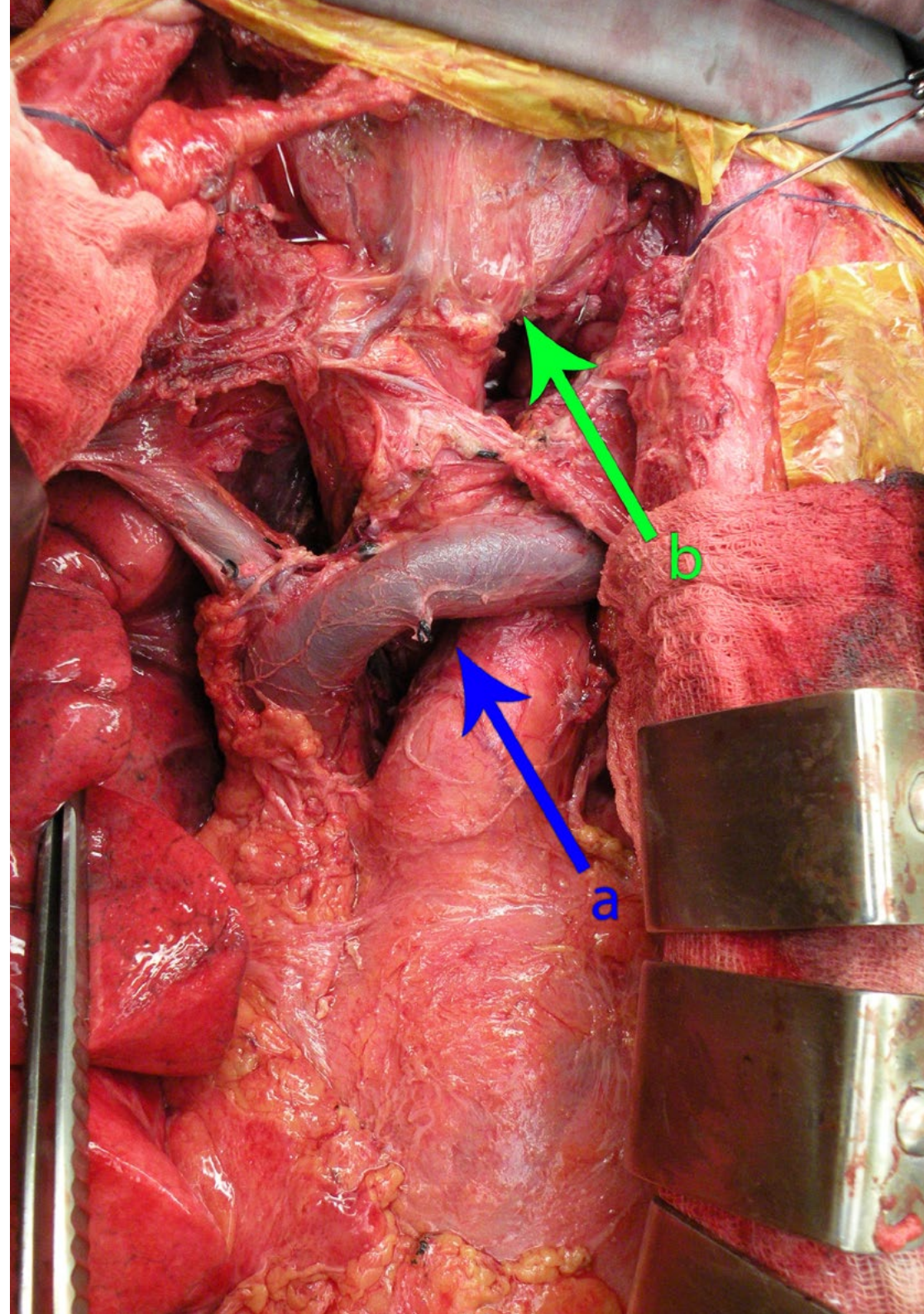


### General Objective

- » To create a global and up-to-date vision of thoracic oncology and all its aspects, allowing the student to acquire useful knowledge and, at the same time, to generate interest in expanding the information and discovering its application in daily practice

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





## Specific Objectives

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### Module 1. Localized and Locally Advanced Stage Non-Small Cell Lung Carcinoma

- » Update of knowledge on disseminated stage non-small cell lung cancer in different topics that, due to their topicality and importance, represent major changes for the clinical practice of any specialist in thoracic tumors
- » Describe the therapeutic algorithm for the management of each of the thoracic tumors and in the different stages
- » Discuss the growing understanding of the molecular biology and immunology of lung tumors and how they are modifying the diagnostic and therapeutic approach

### Module 2. Disseminated Stage Non-Small Cell Lung Carcinoma

- » Present the latest advances in translational research with practical implications in the management of metastatic non-small cell lung cancer
- » Discuss the current scenario of lung cancer immunotherapy, combinations in clinical development, strategies for dose selection and trial design, clinical pharmacology, and regulatory considerations
- » Determine the positioning of each agent for the treatment of lung cancer
- » Construct an appropriate treatment plan for a patient with a thoracic tumor at each stage
- » Develop an appropriate treatment plan for patients with non-small cell lung cancer (NSCLC) that has progressed after initial treatment
- » Design a treatment plan for a patient with small cell lung cancer (SCLC)
- » Develop an appropriate treatment plan for a patient with SCLC that has progressed after initial treatment

### Module 3. Microcytic Carcinoma of the Lung and Neuroendocrine Tumors

- » Help improve the diagnosis and management of lower incidence tumors such as neuroendocrine tumors, mesothelioma, thymoma or tumors of the posterior mediastinum and thoracic wall
- » Assess the various therapeutic options available for first and subsequent lines of treatment in SCLC and neuroendocrine tumors
- » Explain the cell biology and genetics of low and intermediate grade neuroendocrine tumors
- » Identify the role of peptide receptor radionuclide therapy in the treatment of neuroendocrine lung tumors

### Module 4. Tumors of the Pleura, Mediastinum and Thoracic Wall

- » Analyze the multidisciplinary treatment of pulmonary mesothelioma and future treatment options
- » Define the prognostic value of the anatomopathological classification of thymomas
- » Update on multidisciplinary thymoma treatment and future treatment options
- » Discuss the role of surgery in posterior mediastinal tumors
- » Delve into the diagnosis and treatment of thoracic wall tumors
- » Update on the treatment of secondary pulmonary metastases

03

# Course Management

This program includes in its teaching staff health professionals of recognized prestige, who belong to the field of Thoracic Oncology and who bring to this training the experience of their work. In addition, renowned specialists, members of prestigious national and international scientific communities, are involved in designing and preparing the program.





“

*Learn from leading professionals the latest advances in Thoracic Oncology”*

## Management



### Dr. Oruezábal Moreno, Mauro Javier

- ♦ Head of the medical Oncology Service at La Paz University Hospital
- ♦ Research Fellow at University of Southampton
- ♦ Master's Degree in Bioinformatics and biostatistics UOC-UB
- ♦ Master's Degree in bioinformatic analysis by the Pablo de Olavide University
- ♦ Doctor of Medicine from the Complutense University of Madrid. Outstanding Cum Laude Qualification
- ♦ Member of the Spanish Society of Medical Oncology and GECP Group
- ♦ Specialist (MIR) in Medical Oncology, University Hospital San Carlos of Madrid
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**Dr. Tuero Ojanguren, Carlota**

- » Clinical University of Navarra, Resident

**Dr. Hoyos Mejía, Lukas**

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**Dr. Vega López, Laura**

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- » Degree in Medicine and Surgery from the Complutense University of Madrid
- » Specialist in General and Digestive System Surgery at the Fundación Alcorcón University Hospital
- » Master's Degree in Clinical Management, Medical and Healthcare Administration at TECH Technological University
- » Specialist Degree in Digital Teaching for Medicine from TECH Technological University
- » Specialist Degree in Leadership and Management Skills in Health at CEU University
- » Specialist Degree in Medical Quality Management in CEU University
- » Spanish Association of Surgeons (AEC)
- » Member of the Spanish Association of Coloproctology (AECp)



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

04

# Structure and Content

The structure of the contents has been designed by a team of professionals knowledgeable about the implications of specialization in daily medical practice, aware of the current relevance of specialization in order to be able to act before the patient with thoracic oncologic pathology and committed to quality teaching through new educational technologies.





“

*This Postgraduate Diploma in Lung Cancer, Tumors of the Pleura, Mediastinum and Thoracic Wall contains the most complete and up-to-date scientific program on the market”*

## Module 1. Localized and Locally Advanced Stage Non-Small Cell Lung Carcinoma

- 1.1. Early-Stage NSCLC (I-II)
  - 1.1.1. Surgical Algorithm: Technique Selection
  - 1.1.2. Non-Surgical Algorithm: Stereotactic Radiotherapy (SRT)
  - 1.1.3. Current Best Practice for Adjuvant Radiotherapy
  - 1.1.4. Current Best Practice for Adjuvant Chemotherapy
- 1.2. NSCLC in Advanced Stage (IIIA-IIIB)
  - 1.2.1. Management of Stage IIIA NSCLC
  - 1.2.2. Management of Stage IIIB NSCLC
  - 1.2.3. Radical Radiotherapy in Stage III NSCLC
  - 1.2.4. Concurrent and Sequential Chemotherapy Options in Stage III NSCLC
  - 1.2.5. Toxicity of Radiochemotherapy
- 1.3. Tumor Pancoast
  - 1.3.1. Diagnosis and Evaluation of Upper Lobe Tumors
  - 1.3.2. Surgical Approach to Sulcus Tumors
  - 1.3.3. Multidisciplinary Management of Upper Lobe Tumors

## Module 2. Disseminated Stage Non-Small Cell Lung Carcinoma

- 2.1. NSCLC in Metastatic Stage. Targeted Therapy in the Treatment of NSCLC
  - 2.1.1. Differentiation between the Treatment of Squamous Carcinoma and Adenocarcinoma of the Lung
  - 2.1.2. Therapeutic Algorithm for NSCLC
- 2.2. Angiogenic and Targeted Therapy in the Treatment of NSCLC
  - 2.2.1. Angiogenic Therapies in the Management of NSCLC
  - 2.2.2. Targeted Therapy for EGFR-Positive Advanced Disease
  - 2.2.3. Rebiopsy Recommendations After Progression to EGFR-TKIs
  - 2.2.4. Management of EGFR-Resistant Disease
  - 2.2.5. EML4 / ALK, ROS-1: Therapeutic Implications
  - 2.2.6. Mechanisms of Resistance to ALK Inhibitors
  - 2.2.7. Potential and Progress in KRAS, HER2, BRAF, PI3K, MET, TRK and RET Selection



### 2.3. Immunotherapy and Lung Cancer

- 2.3.1. PDL1 Are PDL1 Tests Interchangeable?
- 2.3.2. Clinical Experience and Current Recommendations for Immunotherapy
- 2.3.3. Immunotherapy in Patients with PD-L1-Negative NSCLC
- 2.3.4. Immunotherapy Beyond Immune-Control Inhibitors
- 2.3.5. The Role of Immunotherapy in Small Cell Lung Cancer and Other Thoracic Tumors
- 2.3.6. Monitoring and Management of Immune-Related Adverse Events

### 2.4. Oligometastatic Disease

- 2.4.1. Management of Oligometastatic Disease
- 2.4.2. Role of Surgery in Oligometastatic Disease
- 2.4.3. Stereotactic Radiotherapy in Extracranial Oligometastatic Disease
- 2.4.4. Fractionated Stereotactic Radiotherapy in Oligometastatic Brain Tumors

## Module 3. Microcytic Carcinoma of the Lung and Neuroendocrine Tumors

### 3.1. Microcytic Carcinoma of the Lung

- 3.1.1. Multidisciplinary Management of Localized Disease
- 3.1.2. Role of Radiotherapy in Microcytic Lung Carcinoma of the Lung
- 3.1.3. Management of Disseminated Disease
- 3.1.4. Prophylactic Cranial Radiotherapy (PCR) in Microcytic Lung Carcinoma of the Lung

### 3.2. Neuroendocrine Tumors of the Lung

- 3.2.1. Molecular Biology Approach to Lung Neuroendocrine Tumors of Low and Intermediate Grade
- 3.2.2. Clinical Management Algorithm for Bronchial Carcinoid Tumors
- 3.2.3. Surgical Treatment for Pulmonary Neuroendocrine Tumors

## Module 4. Tumors of the Pleura, Mediastinum and Thoracic Wall

### 4.1. Malignant Mesothelioma

- 4.1.1. Role of Surgery in Malignant Mesothelioma and Other Pleural Tumors
- 4.1.2. Role of Radiotherapy in Malignant Mesothelioma
- 4.1.3. Advanced Malignant Mesothelioma Treatment

### 4.2. Mediastinal Tumors

- 4.2.1. Prognostic and Predictive Value of the Pathologic Classification of Thymomas
- 4.2.2. Role of Surgery in the Treatment of Mediastinal Tumors
- 4.2.3. Role of Radiotherapy in Thymoma
- 4.2.4. Multidisciplinary Approach in Advanced Thymoma
- 4.2.5. New Treatments for Malignant Thymoma

### 4.3. Thoracic Wall Tumors

- 4.3.1. Clinic and Diagnosis of Primitive Thoracic Wall Tumors
- 4.3.2. Surgical Treatment for Primitive Thoracic Wall Tumors

### 4.4. Treatment of Pulmonary Metastases from Other Tumors

- 4.4.1. Indications for Surgical Treatment of Pulmonary Metastases from Other Tumors
- 4.4.2. Surgical Technique in the Treatment of Pulmonary Metastases from Other Tumors
- 4.4.3. Fractionated Stereotactic Radiotherapy of Pulmonary Metastases from Other Tumors

### 4.5. Relapses and Second Tumors

- 4.5.1. Detection of Relapses and Second Tumors
- 4.5.2. Treatment of Relapses and Second Tumors

# 05 Methodology

This academic program offers students a different way of learning. Our methodology uses a cyclical learning approach: **Relearning**.

This teaching system is used, for example, in the most prestigious medical schools in the world, and major publications such as the **New England Journal of Medicine** have considered it to be one of the most effective.



“

*Discover Relearning, a system that abandons conventional linear learning, to take you through cyclical teaching systems: a way of learning that has proven to be extremely effective, especially in subjects that require memorization"*

## At TECH we use the Case Method

What should a professional do in a given situation? Throughout the program, students will face multiple simulated clinical cases, based on real patients, in which they will have to do research, establish hypotheses, and ultimately resolve the situation. There is an abundance of scientific evidence on the effectiveness of the method. Specialists learn better, faster, and more sustainably over time.

*With TECH you will experience a way of learning that is shaking the foundations of traditional universities around the world.*



According to Dr. Gérvas, the clinical case is the annotated presentation of a patient, or group of patients, which becomes a "case", an example or model that illustrates some peculiar clinical component, either because of its teaching power or because of its uniqueness or rarity. It is essential that the case is based on current professional life, trying to recreate the real conditions in the physician's professional practice.



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*Did you know that this method was developed in 1912, at Harvard, for law students? The case method consisted of presenting students with real-life, complex situations for them to make decisions and justify their decisions on how to solve them. In 1924, Harvard adopted it as a standard teaching method”*

The effectiveness of the method is justified by four fundamental achievements:

1. Students who follow this method not only achieve the assimilation of concepts, but also a development of their mental capacity, through exercises that evaluate real situations and the application of knowledge.
2. Learning is solidly translated into practical skills that allow the student to better integrate into the real world.
3. Ideas and concepts are understood more efficiently, given that the example situations are based on real-life.
4. Students like to feel that the effort they put into their studies is worthwhile. This then translates into a greater interest in learning and more time dedicated to working on the course.



## Relearning Methodology

At TECH we enhance the case method with the best 100% online teaching methodology available: Relearning.

This university is the first in the world to combine the study of clinical cases with a 100% online learning system based on repetition, combining a minimum of 8 different elements in each lesson, a real revolution with respect to the mere study and analysis of cases.

*Professionals will learn through real cases and by resolving complex situations in simulated learning environments. These simulations are developed using state-of-the-art software to facilitate immersive learning.*



At the forefront of world teaching, the Relearning method has managed to improve the overall satisfaction levels of professionals who complete their studies, with respect to the quality indicators of the best online university (Columbia University).

With this methodology, more than 250,000 physicians have been trained with unprecedented success in all clinical specialties regardless of surgical load. Our pedagogical methodology is developed in a highly competitive environment, with a university student body with a strong socioeconomic profile and an average age of 43.5 years old.

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

In our program, learning is not a linear process, but rather a spiral (learn, unlearn, forget, and re-learn). Therefore, we combine each of these elements concentrically.

The overall score obtained by TECH's learning system is 8.01, according to the highest international standards.



This program offers the best educational material, prepared with professionals in mind:



#### Study Material

All teaching material is produced by the specialists who teach the course, specifically for the course, so that the teaching content is highly specific and precise.

These contents are then applied to the audiovisual format, to create the TECH online working method. All this, with the latest techniques that offer high quality pieces in each and every one of the materials that are made available to the student.



#### Surgical Techniques and Procedures on Video

TECH introduces students to the latest techniques, the latest educational advances and to the forefront of current medical techniques. All of this in direct contact with students and explained in detail so as to aid their assimilation and understanding. And best of all, you can watch the videos as many times as you like.



#### Interactive Summaries

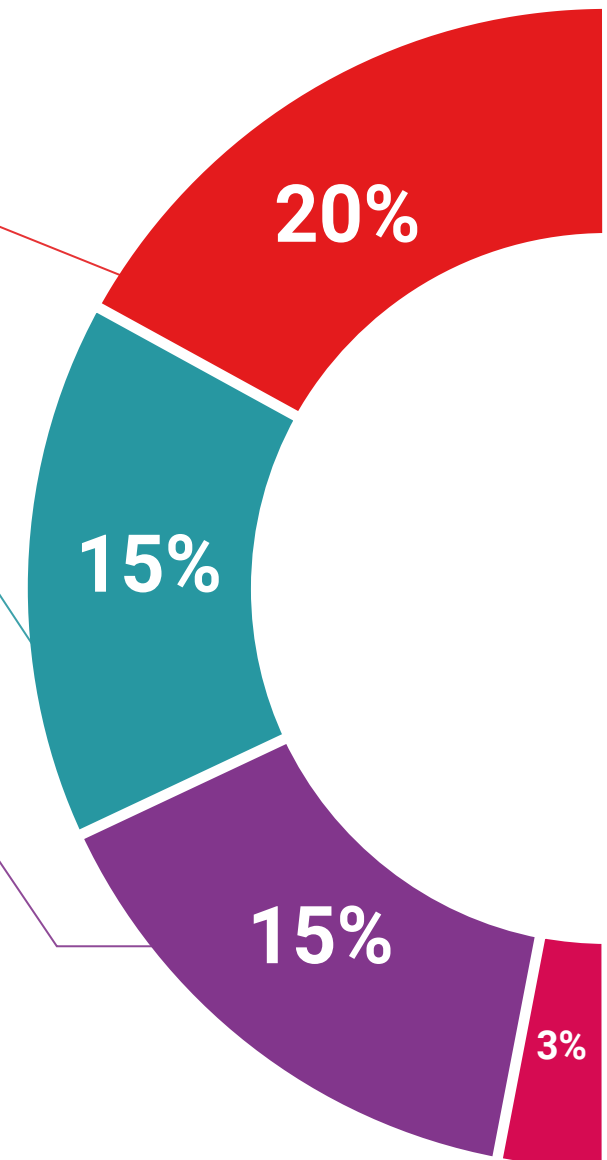
The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

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



#### Additional Reading

Recent articles, consensus documents and international guidelines, among others. In TECH's virtual library, students will have access to everything they need to complete their course.





**Expert-Led Case Studies and Case Analysis**

Effective learning ought to be contextual. Therefore, TECH presents real cases in which the expert will guide students, focusing on and solving the different situations: a clear and direct way to achieve the highest degree of understanding.



**Testing & Retesting**

We periodically evaluate and re-evaluate students' knowledge throughout the program, through assessment and self-assessment activities and exercises, so that they can see how they are achieving their goals.



**Classes**

There is scientific evidence on the usefulness of learning by observing experts. The system known as Learning from an Expert strengthens knowledge and memory, and generates confidence in future difficult decisions.



**Quick Action Guides**

TECH offers the most relevant contents of the course in the form of worksheets or quick action guides. A synthetic, practical, and effective way to help students progress in their learning.



# 06 Certificate

The Postgraduate Diploma in Lung Cancer, Tumors of the Pleura, Mediastinum and Thoracic Wall guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate issued by TECH Technological University.



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

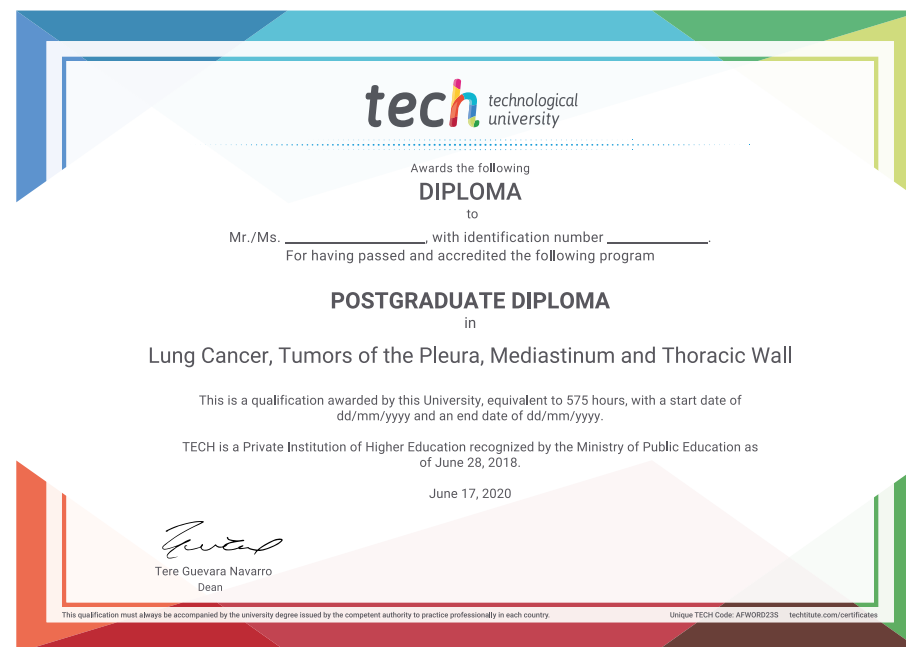
This **Postgraduate Diploma in Lung Cancer, Tumors of the Pleura, Mediastinum and Thoracic Wall** contains the most complete and up-to-date scientific program on the market.

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

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

Title: **Postgraduate Diploma in Lung Cancer, Tumors of the Pleura, Mediastinum and Thoracic Wall**

Official N° of Hours: **575 h.**



\*Apostille Convention. In the event that the student wishes to have their paper diploma issued with an apostille, TECH EDUCATION will make the necessary arrangements to obtain it, at an additional cost.



future  
health confidence people  
education information tutors  
guarantee accreditation teaching  
institutions technology learning  
community commitment  
personalized service innovation  
knowledge present  
development language  
virtual classroom

**tech** technological  
university

## Postgraduate Diploma Lung Cancer, Tumors of the Pleura, Mediastinum and Thoracic Wall

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

# Postgraduate Diploma

Lung Cancer, Tumors of the Pleura,  
Mediastinum and Thoracic Wall