

# Postgraduate Certificate

Update on Oncological  
Principles, Functional  
Sequelae and Supportive  
Care of Patients with  
Urologic Tumor Pathology



## Postgraduate Certificate

Update on Oncological  
Principles, Functional  
Sequelae and Supportive  
Care of Patients with  
Urologic Tumor Pathology

- » Modality: online
- » Duration: 6 weeks
- » Certificate: TECH Technological University
- » Dedication: 8h/week
- » Schedule: at your own pace
- » Exams: online

Website: [www.techtute.com/us/medicine/postgraduate-certificate/update-oncological-principles-functional-sequelae-supportive-care-patients-urologic-tumors-pathology](http://www.techtute.com/us/medicine/postgraduate-certificate/update-oncological-principles-functional-sequelae-supportive-care-patients-urologic-tumors-pathology)

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# 01

# Introduction

The scientific knowledge evolution in the field of Oncology in general and Urological Oncology in particular, allows us to offer systemic treatments but at the same time directed to specific therapeutic targets. This reality is, if possible, even more evident in the field of Uro-Oncology. As a consequence of this current situation, the specialty of Urology and the specialty of Oncology have been approaching to the point that there are many fields in which the boundaries between the two are no longer defined, mainly because they no longer exist.







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*Improve your knowledge through this program, where you will find the best didactic material with real clinical cases. Learn here about the latest advances in the specialty to be able to provide quality medical care"*

Modern medicine leads its professionals to an ever-increasing and increasingly demanding training, which translates into the well-known oncological or multidisciplinary committees. The challenges of the present and the immediate future in the field of urology and Urologic Oncology force to have a specific Training that is only partially covered by the specialties separately, and that make an expert of these characteristics cover a real and growing need in modern medicine.

The current existence of new molecules in the treatment of prostate cancer opens up a completely new scenario for our patients. Any professional who wants to treat these patients adequately urgently needs to acquire new knowledge in an easy and effective way, since the advent of so much new information will unequivocally overwhelm us. Only those physicians adequately specialized in uro-oncology will have the capacity to care for their patients adequately and will be able to continue to their patients adequately and will be able to continue on this train that is already unstoppable.

For this reason, this Postgraduate Certificate has been created to offer the specialist an intensive and advanced update of his knowledge on the Oncological Principles, Functional Sequelae and Support Treatments for Patients with Urological Tumor Pathology. For this purpose, TECH has developed a syllabus with a theoretical and practical approach, consisting of multimedia resources and masterclasses given by a guest lecturer who is a reference in the field of Uro-Oncology. These sessions will bring the professional closer to the latest information in this field, especially in the field of diagnosis and treatment.

This **Postgraduate Certificate in Update on Oncological Principles, Functional Sequelae and Supportive Care of Patients with Urological Tumor Pathology** contains the most complete and up-to-date scientific program on the market. The most important features include:

- ◆ Development of clinical cases presented by experts in uro-oncology. 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.
- ◆ Diagnostic and therapeutic advances on oncological principles, functional sequelae and supportive care of the patient with urological tumor pathology.
- ◆ 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 uro-oncology
- ◆ 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.



*Get trained through the Postgraduate Certificate in Update on Oncological Principles, Functional Sequelae and Supportive Care of Patients with Urologic Tumor Pathology"*

“*Receive the most complete knowledge update through masterclasses given by a guest lecturer of reference in the field of Uro-Oncology*”

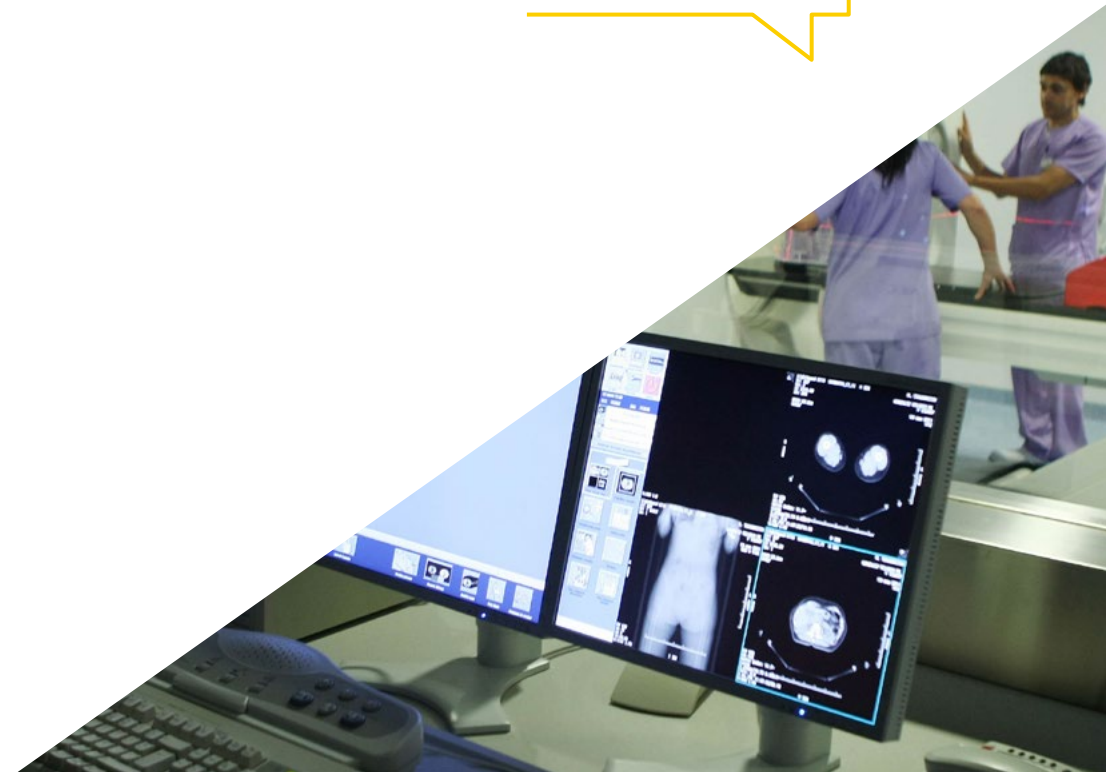
Its teaching staff includes health professionals belonging to Urology and Oncology field, who bring their work experience to this training, as well as recognized specialists belonging to leading scientific societies.

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

This program is designed around Problem-Based Learning, through which the physician must try to solve the different professional practice situations that arise throughout the program. For this reason, you will be assisted by an innovative, interactive video system created by renowned and experienced experts in the field of Urology and Oncology and with extensive teaching experience.

*This course allows training in simulated environments, which provide immersive learning programmed to train for real situations.*

*It includes clinical cases to bring the program's degree as close as possible to the reality of care in medicine.*

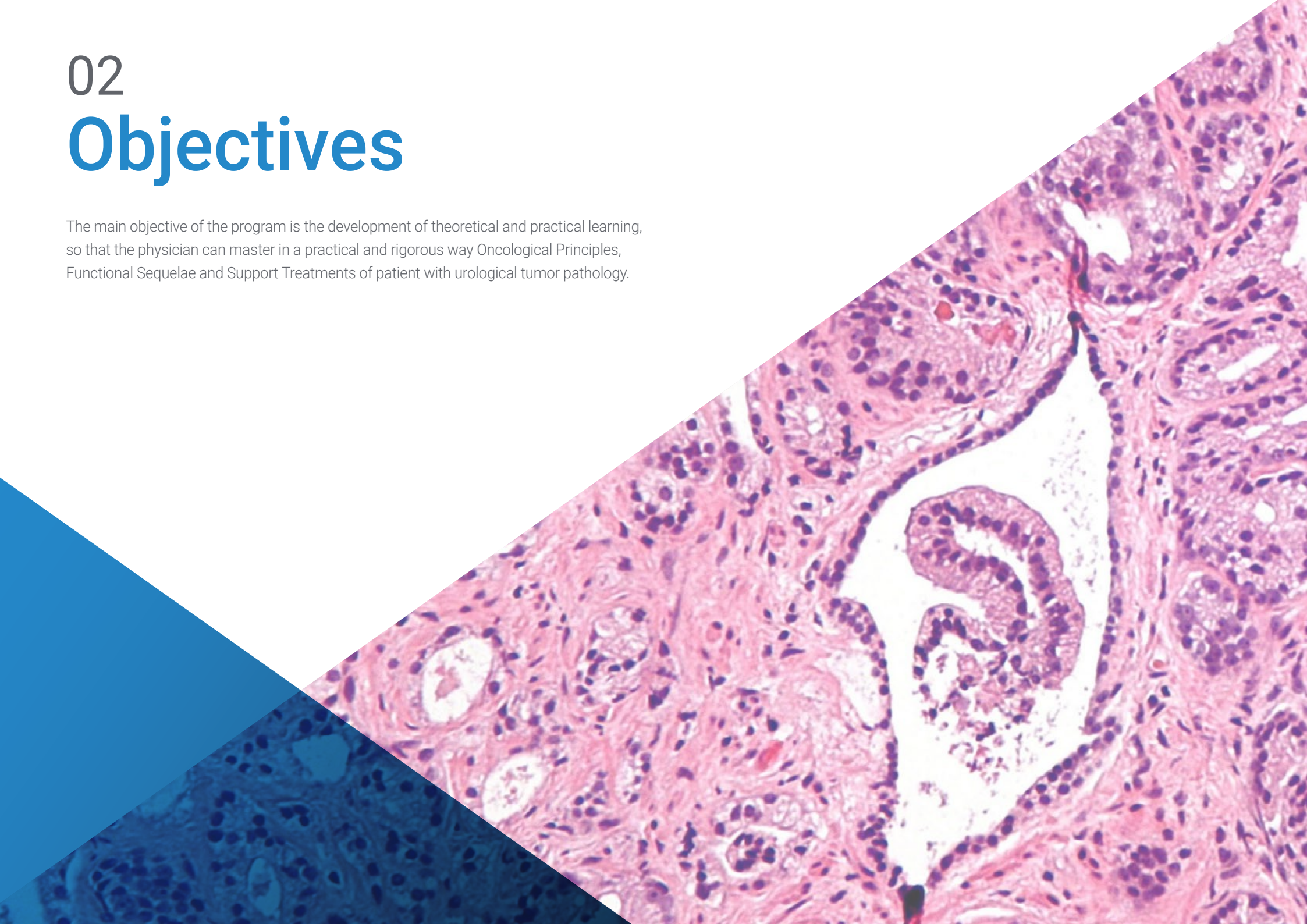




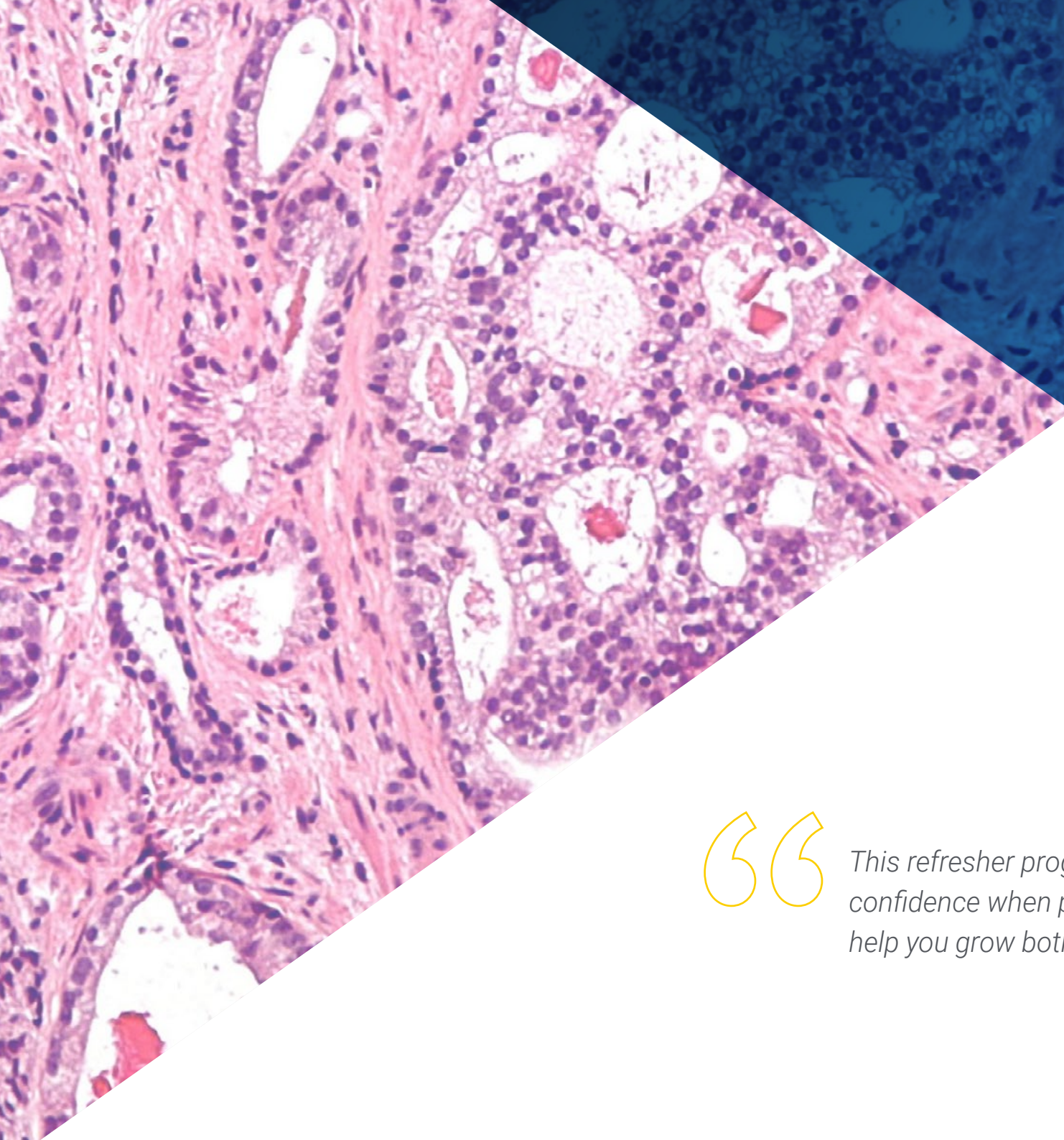
# 02

# 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 Oncological Principles, Functional Sequelae and Support Treatments of patient with urological tumor pathology.







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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”*





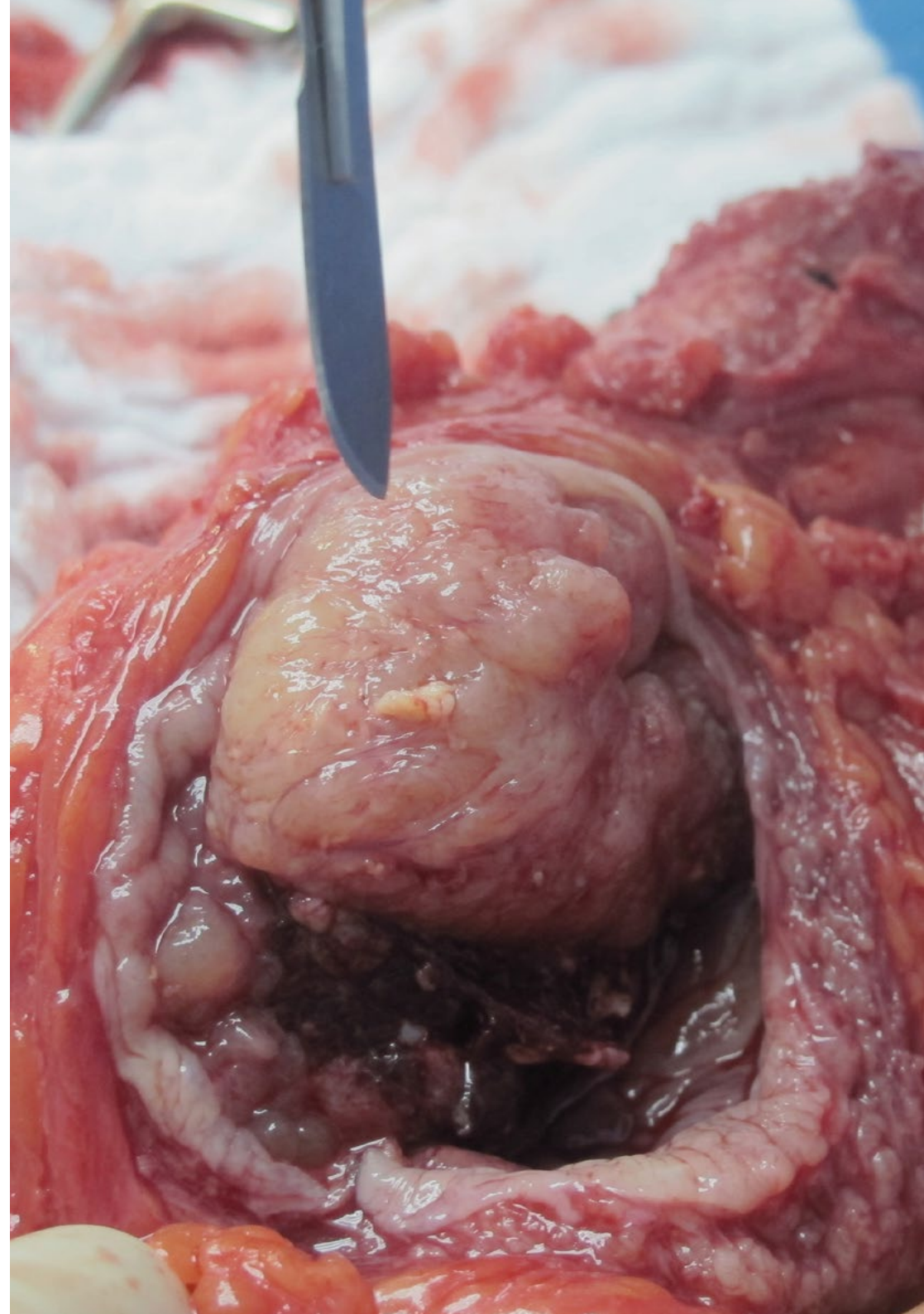
## General Objectives

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- ◆ Give students a comprehensive view of urologic oncology as a whole that goes beyond their own specialty
- ◆ Provide students with the necessary tools to lead multidisciplinary--oncology groups
- ◆ Provide sufficient knowledge of the molecular basis of oncogenesis to be able to incorporate new molecules directed to specific targets already available, as well as to be able to queue on research projects and in clinical trials of new molecules that are about to arrive in the short and medium term



*Take advantage of the opportunity and take the step to get up to date on the latest developments in oncological principles, functional sequelae and supportive treatments for patients with urological tumor pathology"*





## Specific Objectives

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- ◆ Describe the molecular biology of cancer in urologic oncology and specifically in the different urologic tumors
- ◆ Explain the prognostic factors related to the occurrence of urologic cancer
- ◆ Explain the use of different tumor markers and their diagnostic implication in Urologic Oncology. Acquire in-depth knowledge of the future of tumor markers in urology
- ◆ Describe the different paraneoplastic syndromes related to urologic oncologic pathology
- ◆ Describe the basic principles of tumor genetics in urologic oncology
- ◆ Describe the main oncologic emergencies in Urology and their possible forms of management
- ◆ List oncological principles in urology such as etiology, susceptibility, epidemiology, etc
- ◆ Describe the principles of oncologic surgery in urology
- ◆ Explain the relationship and importance of the clinical trial in the urological oncology patient
- ◆ Describe the supportive care of the oncologic patient in urology
- ◆ Identify the functional genitourinary sequelae of oncological treatments in Urology: andrological and reconstructive surgery
- ◆ Describe the application of Nuclear Medicine and Molecular Imaging in oncologic tumor pathology
- ◆ Know the role of the different therapeutic options depending on the stage of the tumor
- ◆ Know the most appropriate tumor staging methods
- ◆ Acquire a thorough understanding of the different tumor markers and their applications
- ◆ Acquire a thorough knowledge of histology as well as of at-risk groups
- ◆ Know the available treatment options depending on the stage and acquire the appropriate criteria to propose the best treatment
- ◆ Gain in-depth knowledge of tumor histology as well as premalignant lesions
- ◆ Acquire up-to-date knowledge of treatment options for superficial tumors
- ◆ Know the surgical and adjuvant treatment options according to tumor stage
- ◆ Know the indications and applications of the sentinel lymph node
- ◆ Know the current appropriate staging methods
- ◆ Acquire a thorough knowledge of the mechanisms of action of currently available molecules and their indications
- ◆ Knowledge of the role of immunotherapy
- ◆ In-depth knowledge of existing tumor markers and their current applicability
- ◆ Acquire knowledge of the new diagnostic tools available and their clinical applicability
- ◆ Acquire an adequate and guaranteed approach to active surveillance
- ◆ In-depth knowledge of treatment options that are intended to be curative
- ◆ Acquire the knowledge and criteria for Focal Therapy and its different energy sources
- ◆ Adequate management of metastatic patients in all its implications



03

# Course Management

This program includes in its teaching staff health professionals of recognized prestige, who belong to the field of uro-oncology and who pour into 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.





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*Learn from professionals reference, the latest advances on Update on Oncological Principles, Functional Sequelae and Supportive Care of Patients with Urologic Tumor Pathology.”*

## International Guest Director

Dr. Kai Tsao is the **Medical Director** of the Ruttenberg Treatment Center at the Tisch Cancer Institute at Mount Sinai Hospital. His mission in this position is to lead the multidisciplinary treatment center to provide the highest quality of patient-centered care for those affected by Cancer and blood disorders.

He is an **Associate Professor of Medicine, Hematology and Medical Oncology** at the Icahn School of Medicine at Mount Sinai and is on staff at the Tisch Cancer Institute at Mount Sinai Hospital and the Mount Sinai Queens Infusion Center.

Dr. Tsao is board certified in Internal Medicine, Hematology and Medical Oncology. He is actively involved in research on the development of new therapies in the treatment of genitourinary cancers. He has received several merit awards from the American Society of Clinical Oncology. His main objective is to define the clinical and molecular phenotype of prostate, kidney and bladder cancers, as well as new therapies in these disease states. He is principal investigator in several ongoing clinical trials and has authored more than 40 peer-reviewed publications.





## Dr. Tsao, Kai

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- Medical Director of the Ruttenberg Treatment Center of the Tisch Cancer Institute at Mount Sinai Hospital
- Principal investigator on several clinical trials
- Participant in research on the development of new therapies for the treatment of genitourinary cancers
- Lecturer at the Icahn School of Medicine at The Mount Sinai School of Medicine
- Author of more than 40 scientific publications
- Recipient of several merit awards given by the American Society of Clinical Oncology
- Member of: American Society of Clinical Oncology, American Association for Cancer Research, American Society of Hematology



*Thanks to TECH you will be able to learn with the best professionals in the world"*

# 04

# Structure and Content

The structure of the contents has been designed by a team of professionals knowledgeable about the implications of training in daily medical practice in oncological principles, functional sequelae and support treatments for patients with urological tumor pathology, aware of the relevance of the current relevance of training to be able to act before the patient with uro-oncological pathology with quality teaching through new educational technologies.





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*This Postgraduate Certificate in Update on Oncological Principles, Functional Sequelae and Supportive Care of Patients with Urological Tumor Pathology contains the most complete and updated scientific program on the market"*



## Module 1. Update on Update on Oncological Principles, Functional Sequelae and Supportive Care of Patients with Urologic Tumor Pathology

- 1.1. Molecular Biology of Cancer
- 1.2. Prognostic Factors, Tumor Markers and Paraneoplastic Syndromes in Urologic Oncologic Pathology
- 1.3. Tumor Genetics
- 1.4. Oncologic Emergencies in Urology
- 1.5. Oncological Principles: Etiology, Susceptibility, and Epidemiology.
- 1.6. Principles of Urologic Surgical Oncology
- 1.7. Clinical Trials in Urologic Oncology Patients
- 1.8. Supportive Care of the Oncologic Patient in Urology
- 1.9. Genitourinary Functional Sequelae of Oncologic Treatments in Urology
  - 1.9.1. Surgical Andrology
  - 1.9.2. Reconstructive Surgery
- 1.10. Nuclear Medicine and Molecular Imaging in Oncologic Tumor Pathology
  - 1.10.1. Scientific Evidence in Urologic Oncology
  - 1.10.2. New Tracers





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*A unique, key, and decisive educational experience to boost your professional development”*



# 05

# Methodology

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

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





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

## At TECH we use the Case Method

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

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



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

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

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

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





## Relearning Methodology

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

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

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



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

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

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

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

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



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



#### Study Material

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

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



#### Surgical Techniques and Procedures on Video

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



#### Interactive Summaries

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

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



#### Additional Reading

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







#### Expert-Led Case Studies and Case Analysis

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



#### Testing & Retesting

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



#### Classes

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



#### Quick Action Guides

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



# 06 Certificate

The Postgraduate Certificate in Update on Oncological Principles, Functional Sequelae and Supportive Care of Patients with Urologic Tumor Pathology guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate issued by TECH Technological University.



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



This **Postgraduate Certificate in Update on Oncological Principles, Functional Sequelae and Supportive Care of Patients with Urological Tumor Pathology** contains the most complete and up-to-date scientific on the market.

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

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

Program: **Postgraduate Certificate in Update on Oncological Principles, Functional Sequelae and Supportive Care of Patients with Urologic Tumor Pathology.**

Official No. of Hours: **200 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.



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