

Postgraduate Certificate

Reality of Orphan, Agnostic Tumors and Tumors of Unknown Primary





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Reality of Orphan, Agnostic Tumors and Tumors of Unknown Primary

Course Modality: **Online**

Duration: **6 weeks**

Certificate: **TECH Technological University**

Official N° of hours: **150 h.**

Website: www.techtitute.com/us/medicine/postgraduate-certificate/reality-orphan-agnostic-tumors-tumors-unkown-primary

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01

Introduction

Rare or low-incidence tumors are those that affect a small number of people. However, if patients with all cancers of this type are grouped together, the numbers increase considerably. Therefore, it is necessary to have specialists in this field, since their low incidence makes them more unknown and, therefore, have high mortality rates. This program aims to prepare students to recognize the different entities that make up this group of pathologies: uncommon, rare and ultra-rare cancers; orphan tumors; agnostic tumors; and cancers of Unknown Primary.



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Improving your skills in the diagnosis and treatment of this type of cancer will save the lives of your patients. Study at TECH and get a quality qualification"

For adults, a cancer is considered rare when its annual incidence is less than 6 cases per 100,000 people. It is estimated that they represent up to 24% of the cancers diagnosed in the European Union and around 20% of the cancers diagnosed in the United States. Specifically, this program prepares students to recognize the different entities that make up this group of pathologies: uncommon, rare and ultra-rare cancers; orphan tumors; agnostic tumors; and cancers of Unknown Primary.

The student will be able to place these entities in an epidemiological context, specialize in their incidence and prevalence, as well as the trend of the rates at European and national level. In addition, the student will learn in depth the survival data at European and national level, and the causes of the differences in survival between rare tumors and reference tumor pathology. Furthermore, this program allows the student an approach to precision medicine in the context of rare tumors, agnostic treatments and cancer of Unknown Primary. Through problem-solving through different clinical experiences with precision medicine in uncommon tumors, you will be able to apply genomics in the diagnosis and treatment of infrequent tumors.

In this program, the experts, all of them referents in each field of knowledge, will develop aspects related to the context of this spectrum of pathologies, will present the clinical and molecular vision, will show their diagnostic and therapeutic approaches and will explain complementary aspects such as their research and institutional environment or the global reality of the patients who suffer from them.

In addition, students will be able to complete the program at their own pace, without being subject to fixed schedules or the travel involved in classroom teaching, so they can combine it with the rest of their daily obligations.

This **Postgraduate Certificate in Reality of Orphan, Agnostic Tumors and Tumors of Unknown Primary** contains the most complete and up-to-date scientific program on the market. Its most notable features are:

- ♦ Case studies presented by experts in 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 development
- ♦ Developments on Reality of Orphan, Agnostic Tumors and Tumors of Unknown Primary
- ♦ Practical exercises where the self-assessment process can be carried out to improve learning
- ♦ Its special emphasis on innovative methodologies in the diagnosis and treatment of Reality of Orphan, Agnostic Tumors and Tumors of Unknown Primary
- ♦ Theoretical lessons, questions to the expert, debate forums on controversial topics, and individual reflection work
- ♦ Content that is accessible from any fixed or portable device with an Internet connection



Learn about the latest developments in this type of pathology, you will contribute to science with your future diagnoses and advance in your daily work"

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This Postgraduate Certificate is the best investment you can make in the selection of a refresher program for two reasons: in addition to updating your knowledge in Reality of Orphan, Agnostic Tumors and Tumors of Unknown Primary, you will obtain a qualification endorsed by the leading online university in Spanish: TECH”

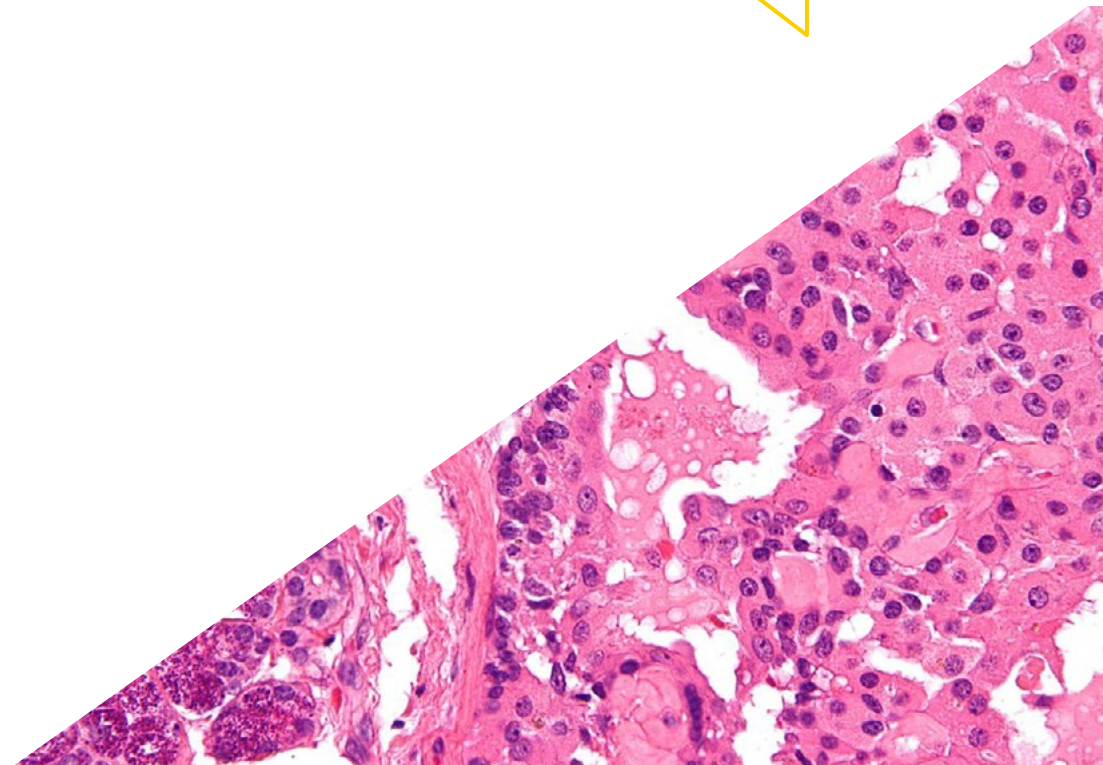
The teaching staff includes professionals from the Oncology sector, who bring their experience to this educational program, as well as renowned specialists from leading societies and prestigious universities.

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

This program is designed around Problem-Based Learning, whereby the specialist 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.

With this program you will delve into the causes of survival differences between rare tumors and reference tumor pathology.

Approach precision medicine in the context of rare tumors, agnostic treatments and cancer of Unknown Primary and boost your academic career.



02 Objectives

The design of this Postgraduate Certificate in Reality of Orphan, Agnostic Tumors and Tumors of Unknown Primary will allow the student to delve into a field of medicine that is in constant research. This way, you will update your professional profile and boost your career in a field of study in which there is a lack of specialists. The program has been designed by a team of experts with contents that will enable the future graduate to reach the proposed objectives. However, you will be fully empowered to deal with the latest advances and the newest treatments currently being applied. For this reason, TECH has established a series of general and specific objectives for the satisfaction of future graduates, as follows:





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*TECH has only one goal: to increase
your chances of professional success"*



General objectives

- ♦ Acquire concepts and knowledge regarding the epidemiology, clinical, diagnosis and treatment of infrequent tumors, agnostic diagnoses and cancers of Unknown Primary
- ♦ Know how to apply the diagnostic algorithms and evaluate the prognosis of this pathology
- ♦ Be able to integrate knowledge and face the complexity of formulating clinical and diagnostic judgments based on the available clinical information
- ♦ Know how to apply acquired knowledge and problem-solving skills in new or unfamiliar environments within broader (or multidisciplinary) contexts related to the area of study
- ♦ Know how to establish complex therapeutic plans in the context of the pathology in question Have a deeper knowledge of specific treatment networks, reference centers, clinical trials
- ♦ Incorporate new technologies into daily practice, knowing their advances, limitations and future potential
- ♦ Acquire knowledge about molecular biology tools for the study of these tumors
- ♦ Have thorough knowledge and use Tumor Registries
- ♦ Know and use the face-to-face or virtual Molecular Committees
- ♦ Understand fundamental aspects of biobank operation
- ♦ Specialize in interprofessional relationship tools for the treatment of orphan, agnostic and cancer of Unknown Primary and to access expert networks in the different pathology groups
- ♦ Know how to apply knowledge to solve clinical and research problems in the area of rare pathology
- ♦ Know how to communicate conclusions, knowledge, and supporting arguments to specialized and non-specialized audiences in a clear and unambiguous way
- ♦ Acquire the learning skills to enable further studying in a largely self-directed or autonomous manner
- ♦ Possess and understand knowledge that provides a basis or opportunity to be original when developing and/or applying ideas, often in a research context
- ♦ Understand the social responsibility due to rare diseases



Take the opportunity and take the step to get up to date on the latest developments in Reality of Orphan, Agnostic Tumors and Tumors of Unknown Primary"



Specific objectives

- ◆ Be able to place the entities under study in an epidemiological context, to know their incidence and prevalence, as well as the trend of the rates at European level
- ◆ Delve into the survival data at European level and the causes of the survival of the differences in survival between rare tumors and reference tumor pathology
- ◆ Gain an in-depth understanding of aspects related to precision medicine in the context of rare tumors, agnostic treatments and cancer of Unknown Primary
- ◆ Handle the different models of care for rare tumors, as well as concepts in their field such as tumor registries, expert networks, reference units and tumor board review
- ◆ Acquire training on biobanks and their role in clinical research
- ◆ Become familiar with the methodological aspects of low incidence tumor research
- ◆ Specialize in the European framework of legislation in relation to low incidence tumors, the role of regulatory agencies and the particularities of access to drugs to drugs
- ◆ Be aware of the implications of all this in the patient's experience, as well as the repercussions of the disease at the psychological and social level

03

Course Management

In its commitment to offer an elite education for all, TECH counts on renowned professionals so that the student acquires a solid knowledge in the health specialty of this academic course. Therefore, this program has a highly qualified team with extensive experience in the sector, which will offer the best tools for the student in the development of their skills during the program. Students have the guarantees they need to specialize in a field in which there is still much to discover, catapulting them to professional success and also contributing to the development of their research skills.



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Succeed with the best and acquire the knowledge and skills you need to fully understand the casuistry of orphan, agnostic and tumors of Unkown Primary"

Management



Dr. Beato, Carmen

- ♦ Medical Oncologist at University Hospital Virgen Macarena. Unit of Urological Tumors, Infrequent and of Unknown Primary
- ♦ Expert in Immuno-Oncology
- ♦ Master's Degree in Palliative Care
- ♦ Expert in Clinical Trials
- ♦ Member of the Spanish Group on Orphan and Infrequent Tumors (GETHI)
- ♦ Secretary Spanish Group for Cancer of Unknown Primary (GECOD)

Professors

Dr. García-Donas Jiménez, Jesús

- ♦ Oncologist Urological, Gynecological and Dermatological Tumors Unit
- ♦ Director of the Translational Oncology Laboratory
- ♦ Expert in Immuno-Oncology
- ♦ Clara Campal Comprehensive Oncology Center
- ♦ Treasurer of the Spanish Group of Orphan and Infrequent Tumors (GETHI)

Dr. Fernández Pérez, Isaura

- ♦ Oncologist Breast, Gynecologic, Gynecologic, Cancer of Unknown Primary and Central Nervous System Unit. University Hospital Complex in Vigo-Hospital Álvaro Cunqueiro
- ♦ Member of the Spanish Group for Cancer of Unknown Primary (GECOD)

Dr. De las Peñas Bataller, Ramón

- ♦ Castellón Provincial Hospital Consortium. Central Nervous System Tumors Unit, Lung, Sarcomas and Uncommon Tumors Unit

Dr. Calero Domínguez, Raquel

- ♦ PhD in Psychology Medicine from the UCM
- ♦ General Health Psychologist
- ♦ Expert in Psycho-oncology and Palliative Care
- ♦ Head of Psychology MAPFRE Medical Center



04

Structure and Content

The syllabus of this program has been designed based on the requirements of medicine applied to the reality of certain tumors, a specialization that is scarce on the market and of vital importance. For this reason, it is essential that medical professionals delve deeper into the subject, contributing to the investigation of the conditions that give rise to these cases. Therefore, the content of the program has been structured in ten topics that include all the necessary information for the student, incorporating all the elements that may intervene in the development of their functions aimed at the treatment of Reality of Orphan, Agnostic Tumors and Tumors of Unknown Primary.





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TECH has selected the best people to develop the syllabus of this program in order to provide you with quality content"

Module 1. Reality of Orphan, Agnostic Tumors and Tumors of Unknown Primary

- 1.1. Low Incidence Cancer
 - 1.1.1. Uncommon, Rare and Ultrare Cancer
 - 1.1.2. Orphan Tumors
 - 1.1.3. Agnostic Tumors
 - 1.1.4. Cancers of Unknown Primary
- 1.2. Epidemiology of Uncommon Cancer
 - 1.2.1. Incidence and Prevalence of Uncommon Tumors
 - 1.2.2. Trend of Rates at European and National Level
- 1.3. Survival in Rare Tumors
 - 1.3.1. Survival Data at European and National Level
 - 1.3.2. Causes of Differences in Survival
- 1.4. Precision Medicine and Rare Tumors
 - 1.4.1. Precision Medicine
 - 1.4.2. Rationale for Precision Medicine in Uncommon Tumors
 - 1.4.3. Clinical Experiences with Precision Medicine in Uncommon Tumors
 - 1.4.4. Application of Genomics in the Diagnosis and Treatment of Rare Tumors
- 1.5. Models of Care for Uncommon Tumors
 - 1.5.1. Tumor Registers
 - 1.5.2. Expert Networks
 - 1.5.3. Reference Units
 - 1.5.4. Tumor Board Review
- 1.6. Role of the Biobank in Clinical Research
 - 1.6.1. Biobanks
 - 1.6.2. Legislative Regulation
 - 1.6.3. The Biobank in the Management of Uncommon Tumors





- 1.7. Methodological Aspects of Clinical Research in Uncommon Tumors
 - 1.7.1. Importance of Clinical Research in Uncommon Tumors
 - 1.7.2. Research Difficulties in Uncommon Tumors
 - 1.7.3. New Models of Clinical Trials
 - 1.7.4. Bayesian Inference
 - 1.7.5. Nanoscience Applied to Rare Tumors or Bioinformatics and New Mathematical Models for the Study of Rare Tumors
- 1.8. Legislation
 - 1.8.1. European Framework
 - 1.8.2. Regulatory Agencies
- 1.9. Access to Drugs
 - 1.9.1. Access to Drugs
 - 1.9.2. Off-Label Therapies
- 1.10. Psychological and Social Aspects of Low-Incidence Tumors
 - 1.10.1. Psychological Aspects of this Spectrum of Pathology
 - 1.10.2. Social Issues Affecting the Uncommon Cancer Patient

“*You will master the psychological and social aspects of low-incidence 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.



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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.



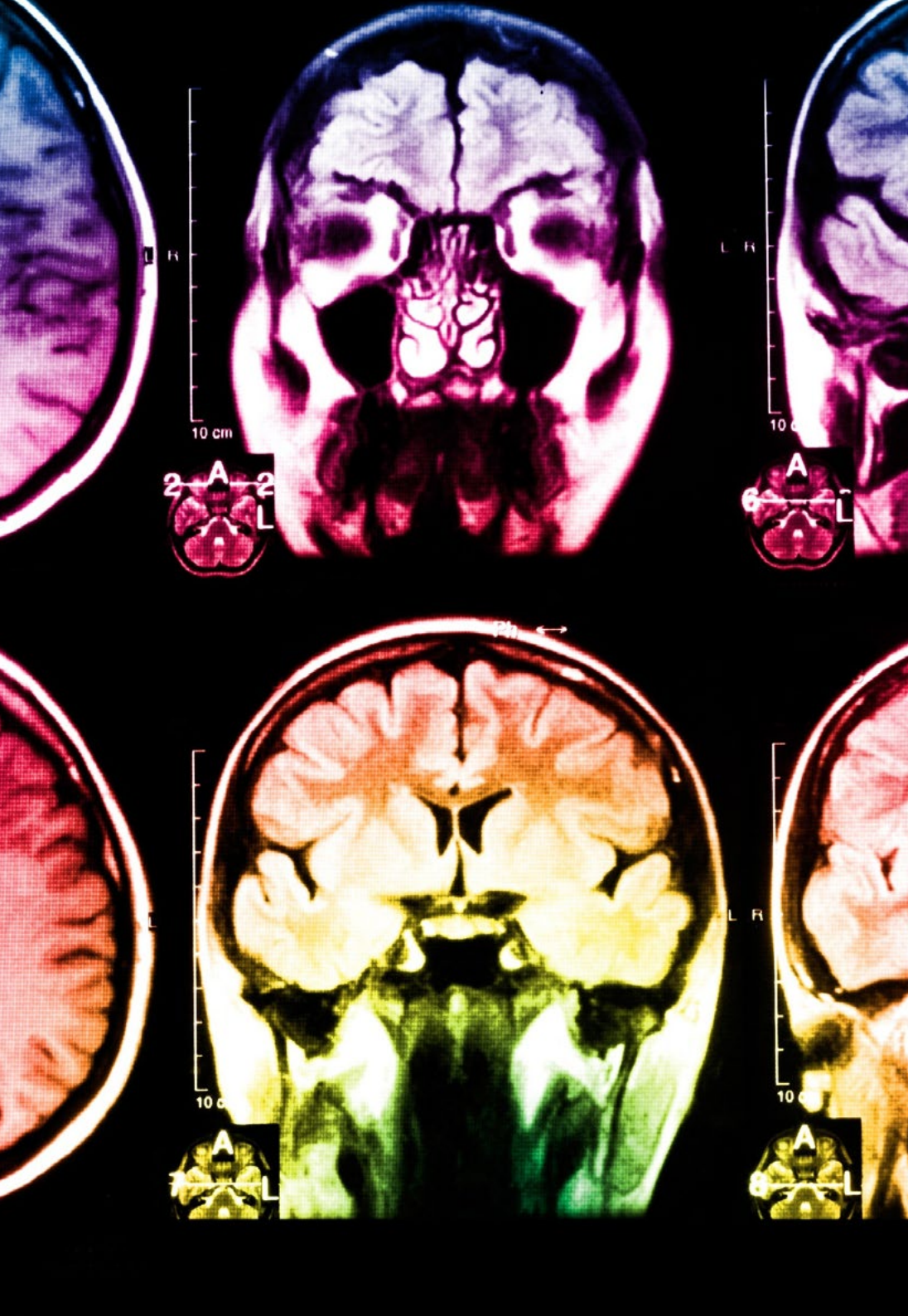
At the forefront of world teaching, the Relearning method has managed to improve the overall satisfaction levels of professionals who complete their studies, with respect to the quality indicators of the best online university (Columbia University).

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

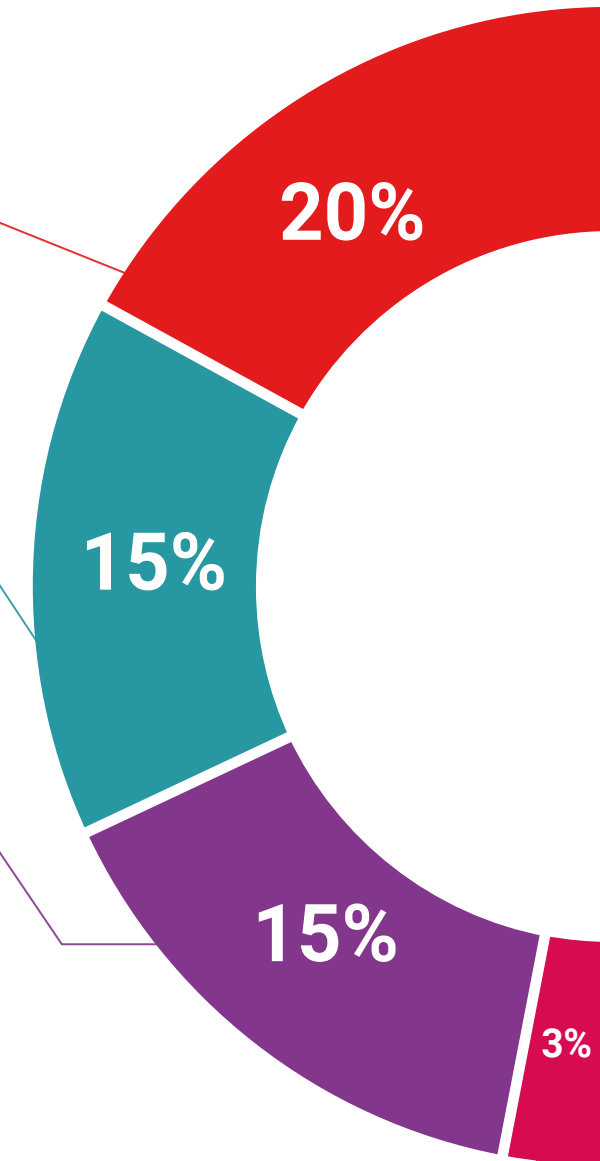
The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

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.





06 Certificate

The Postgraduate Certificate in Reality of Orphan, Agnostic Tumors and Tumors of Unknown Primary guarantees you, in addition to the most rigorous and updated training, access to a Postgraduate Certificate issued by TECH Technological University.



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*Successfully complete this program
and receive your university degree
without travel or laborious paperwork”*

This **Postgraduate Certificate in Reality of Orphan, Agnostic Tumors and Tumors of Unknown Primary** contains the most complete and updated scientific program 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.

Title: **Postgraduate Certificate in Reality of Orphan, Agnostic Tumors and Tumors of Unknown Primary**

Official N° of hours: **150 h.**





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