

# Postgraduate Certificate

## Cancer of Unknown Origin





## Postgraduate Certificate Cancer of Unknown Origin

- » 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/cancer-unkown-origin](http://www.techtitude.com/us/medicine/postgraduate-certificate/cancer-unkown-origin)

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# 01

# Introduction

Cancers of unknown origin are one of the cancers with the highest incidence in developed countries. However, neither their study nor their diagnosis allow us to know their origin, which creates difficulties for their treatment, since they are usually identified in advanced stages. Therefore, it is essential that oncology professionals continue research in this field, since all the advances will lead to improvements in patient health. In this sense, TECH launches this program with the latest updates and the support of new technologies, essential in this field, with a curriculum developed by industry experts who guarantee students the development of their skills, leading to excellence in their profession.



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*Increase your capabilities in the diagnosis and treatment of tumors of unknown origin thanks to TECH and contribute to scientific progress in the early detection of this pathology"*

The concept of cancer of unknown origin encompasses a wide range of situations. In general, it refers to tumors that are diagnosed at a metastatic stage and that, after a correct diagnostic process, the origin of the primary tumor cannot be elucidated. They represent 3-5% of all tumors diagnosed and are the tenth most common type of tumor in developed countries.

The importance of knowing it lies in the fact that a good number of specialties will be involved in its diagnosis, which, by its nature, is often lengthy. Knowing in depth its modes of presentation and the battery of tests that should be performed in a targeted manner is relevant because it impacts survival.

On the other hand, the therapeutic strategy in this entity has changed substantially in a few years. Thus, from having scarce diagnostic and therapeutic means in the near past, it has evolved to be one of the neoplasms with the greatest development of molecular tools. In addition, a very particular research approach is required, for which new clinical trials have been designed, for example the "umbrella type", which have generated new perspectives for the development of new therapies.

In this program, the experts, all of them referents in each area of knowledge, will develop aspects related to the context of this spectrum of pathologies, will present the clinical and molecular vision of the same, 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 this way, a global vision is offered, as well as a specific one, of this type of pathologies, with the objective of training you for professional success.

Students will be able to complete the program at their own pace, without being subject to fixed schedules or the travel involved in classes where physical attendance is required, so they can combine it with the rest of their daily obligations.

This **Postgraduate Certificate in Cancer of Unknown Origin** is 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
- ♦ News on cancers of unknown origin
- ♦ Practical exercises where the self-assessment process can be carried out to improve learning
- ♦ Special emphasis on innovative methodologies in the approach to this type of tumors
- ♦ 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



*You will learn the latest developments in this type of pathology, and you will notice how you advance in your daily work thanks to the tools you will acquire in this program"*



*With this program, you will learn in depth the modes of presentation and the tests to be performed in order to investigate Cancer of Unknown Origin"*

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.

*You will acquire the skills for the approach to this disease and the collaboration to optimize the survival of these patients successfully.*

*You will learn to manage the peculiar aspects of the research approach, such as basket and umbrella trials.*



# 02 Objectives

The design of this Postgraduate Certificate in Cancer of Unknown Origin will allow the student to delve into a field of medicine that is constantly under investigation due to its rarity. This way, you will update your professional profile and boost your career in a field of study that demands specialists. There, the program has been developed 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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*You are TECH's goal. You will achieve  
academic excellence alongside the best"*



## General Objectives

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- ♦ Acquire concepts and knowledge regarding the epidemiology, clinical, diagnosis and treatment of infrequent tumors, agnostic diagnoses and cancers of unknown origin
- ♦ 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 origin 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 in the development and/or application of ideas, often in a research context
- ♦ Understand the social responsibility due to rare diseases



### Specific Objectives

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- ◆ Delve into the concept of cancer of unknown origin
- ◆ Know in depth its modes of presentation and the tests that should be performed in targeted manner
- ◆ Acquire the skills for the approach of this disease and the collaboration to optimize the survival of these patients
- ◆ Know how use molecular tools in the context of this pathology
- ◆ Manage the peculiar aspects of its research approach: basket and umbrella essays



*Achieve your goals by getting up to date on the latest techniques and medical advances in the field of Cancer of Unknown Origin through a highly demanding educational and scientific program"*

# 03

## Course Management

Due to TECH's commitment to offering an elite education for all, it counts on renowned professionals so that the student acquires a solid knowledge in the medical specialty of this program. For this reason, this curriculum has a highly qualified team of reference in oncology, who will offer the best tools for the student in the development of their skills during the Postgraduate Certificate. Additionally, other recognized experts participate in its design and preparation, completing the program in an interdisciplinary manner. In this way, the student has the guarantees required to specialize in a field in which specialists are continually needed, as more and more cancers of unknown origin arise and those that already exist are not yet fully understood. Therefore, thanks to this program, TECH also promotes the development of its research faculties.





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*Thanks to TECH you will learn from  
the best oncology researchers and  
experts in immuno-oncology"*

## Management



### Dr. Beato, Carmen

- ♦ Medical Oncologist at University Hospital Virgen Macarena. Unit of Urological Tumors, Infrequent and of Unknown Origin
- ♦ 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 Origin (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 Origin and Central Nervous System Unit. University Hospital Complex in Vigo-Hospital Álvaro Cunqueiro
- ♦ Member of the Spanish Group for Cancer of Unknown Origin (GECOD)



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# Structure and Content

The syllabus of this program has been designed based on the requirements of medicine applied to the existence of cancer of unknown origin, a specialization that is scarce in the market of the educational offer due to its rarity and that is of vital importance in healthcare. Therefore, it is essential that medical professionals delve deeper into the subject, contributing to the investigation of the conditions that cause these cases and propose treatments that minimize them. Therefore, the content of the program has been structured in such a way that it includes all the necessary information for the student on their way to medical excellence in this field.



Oncogene -

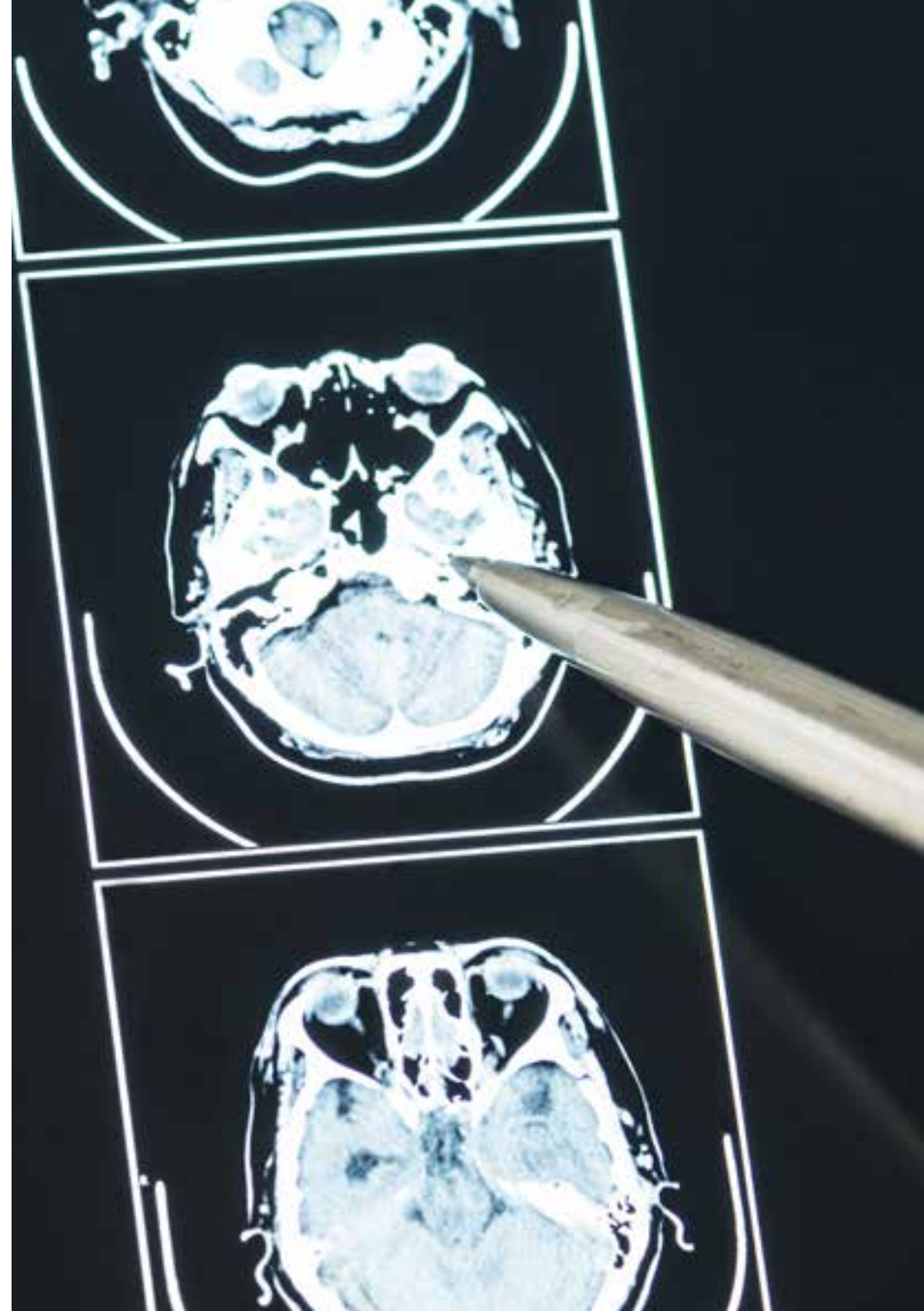
Test


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*Bet on excellence. Bet on a  
prestigious university. Bet on TECH”*

## Module 1. Cancers of Unknown Origin

- 1.1. Introduction and Epidemiology of Cancers of Unknown Origin
  - 1.1.1. Incidence
  - 1.1.2. Prevalence
  - 1.1.3. Prognosis
  - 1.1.4. Risk Factors
- 1.2. Clinical Spectrum of the Disease
  - 1.2.1. Classification
  - 1.2.2. Subgroups of Patients According to their Presentation
- 1.3. Anatomopathological Aspects of the Disease
  - 1.3.1. General Considerations
  - 1.3.2. Histology
  - 1.3.3. Recommended Immunohistochemical Profile
- 1.4. Diagnosis of Cancers of Unknown Origin
  - 1.4.1. Recommended Diagnostic Tests
  - 1.4.2. Role of PET-CT
  - 1.4.3. Diagnostic Algorithm
- 1.5. Cancer of Unknown Origin in the Molecular Era
  - 1.5.1. Paradigm Shift
  - 1.5.2. Molecular Profiles Oriented to Anatomical Origin
  - 1.5.3. Molecular Profiling Aimed at Identifying Genomic Alterations



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- 1.6. Classic Treatment for Cancers of Unknown Origin
    - 1.6.1. Good Subgroup Prognosis
    - 1.6.2. Poor Subgroup Prognosis
  - 1.7. Targeted Therapy in the Molecular Era
    - 1.7.1. Paradigm Shift: From Clinical to Molecular Biology
    - 1.7.2. Molecular Profiles Oriented to Tumor Origin
    - 1.7.3. Molecular Profiles Oriented to Therapeutic Targets
  - 1.8. Clinical Trials: New Designs
  - 1.9. Role of Tumor Registers Clinical and Molecular Committees
    - 1.9.1. Tumor Registers
    - 1.9.2. Biobanks
    - 1.9.3. Clinical and Molecular Committees
  - 1.10. Guide Recommendations

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*You will delve into the role of tumor registries and the different molecular profiles of tumor origin"*

# 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. Gervas, 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.

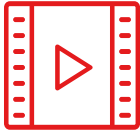
*Relearning will allow you to learn with less effort and better performance, involving you more in your specialization, developing a critical mindset, defending arguments, and contrasting opinions: a direct equation to success.*

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

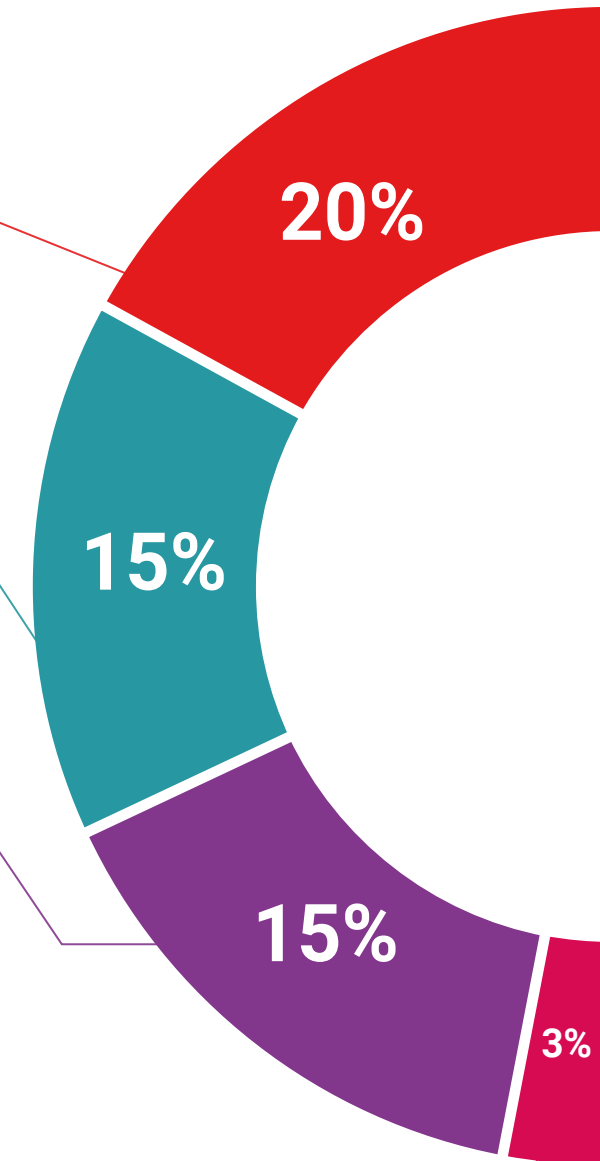
The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

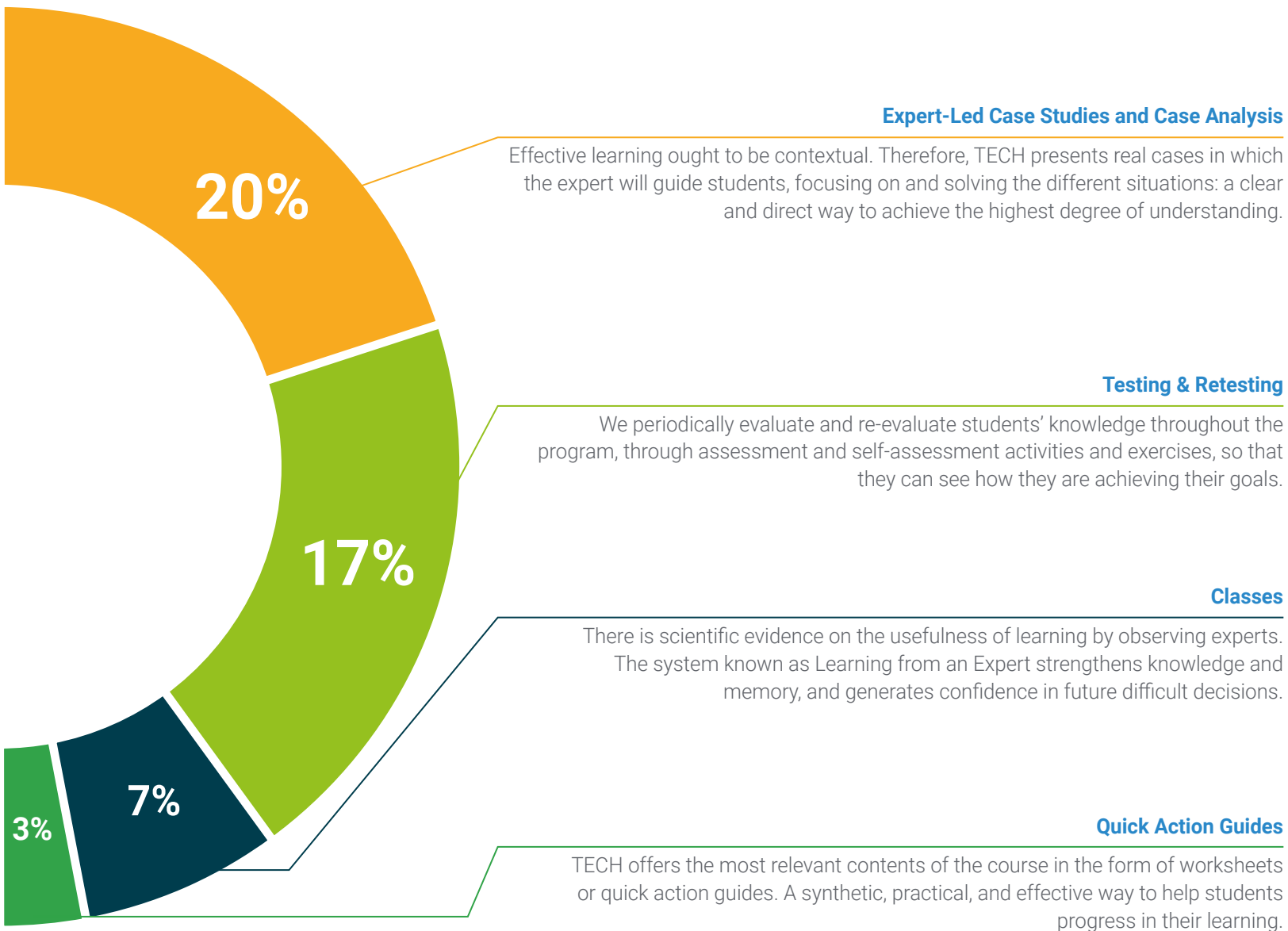
This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



#### 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 Cancer of Unknown Origin 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 degree  
without travel or laborious paperwork”*

This program will allow you to obtain a **Postgraduate Certificate in Cancer of Unknown Origin** 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 title**, 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 Cancer of Unknown Origin**

Modality: **online**

Duration: **6 weeks**

Accreditation: **6 ECTS**



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



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