

Postgraduate Certificate

PET/CT and PET/MRI in Oncology Clinical Guidelines





Postgraduate Certificate PET/CT and PET/MRI in Oncology Clinical Guidelines

- » Modality: online
- » Duration: 6 weeks
- » Certificate: TECH Global University
- » Credits: 6 ECTS
- » Schedule: at your own pace
- » Exams: online

Website: www.techtute.com/us/medicine/postgraduate-certificate/pet-ct-pet-mri-oncology-clinical-guidelines

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01

Introduction

The diagnosis and monitoring of different oncological pathologies are complex tasks, but in recent years certain techniques associated with Nuclear Medicine have become more popular, which facilitate these tasks. Thus, Positron Emission Tomography is one of the most accurate and promising procedures, since it allows detailed observation of various tumors and other related conditions. For this reason, more and more hospital services are looking for doctors specialized in this area and, also for this reason, this qualification offers its students the best knowledge and skills to become great experts who will be requested by the best clinics specialized in Oncology and Nuclear Medicine.





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Thanks to this Postgraduate Certificate you will be able to specialize in the procedure of Positron Emission Tomography, thus gaining access to the most up-to-date knowledge in Nuclear Medicine”

Oncologic pathologies are some of the most complex to detect and treat today. For this reason, specialized techniques are needed that are capable of meeting these challenges. Nuclear Medicine provides, in this respect, important procedures such as Positron Emission Tomography (PET), which allows precise observation of the internal organs of the human body.

For this reason, more and more Oncology and Nuclear Medicine services are requesting specialists in this method, so deciding to pursue a qualification focused on this area is a great option for all those doctors who wish to update their knowledge in the subject or deepen their knowledge in this health field.

Thus, this Postgraduate Certificate in PET-CT and PET-MRI in Oncology Clinical Guidelines is a great opportunity to access the best Nuclear Medicine services in the country. In addition, thanks to its innovative 100% online teaching methodology, which adapts to the circumstances of each student, and its eminently practical approach, students will be in the best position to become the experts that the best hospitals will want to count on.

This **Postgraduate Certificate in PET-TC PET-RMI in Oncology Clinical Guidelines** is the most complete and up-to-date educational program on the market. Its most notable features are:

- The development of case studies presented by experts in Oncology and Nuclear Medicine.
- The graphic, schematic, and eminently practical contents with which they are created, provide scientific and practical information on the disciplines that are essential for professional practice.
- Practical exercises where self-assessment can be used to improve learning.
- Its special emphasis on innovative methodologies
- 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



Become an expert in PET-CT and PET-MRI procedures and offer the best monitoring to your oncology patients"

“

This Postgraduate Certificate will open the doors of prestigious Nuclear Medicine and Oncology services. Don't think twice and enroll"

The program's teaching staff includes professionals from the sector who contribute their work experience to this training 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 training programmed to train in real situations.

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

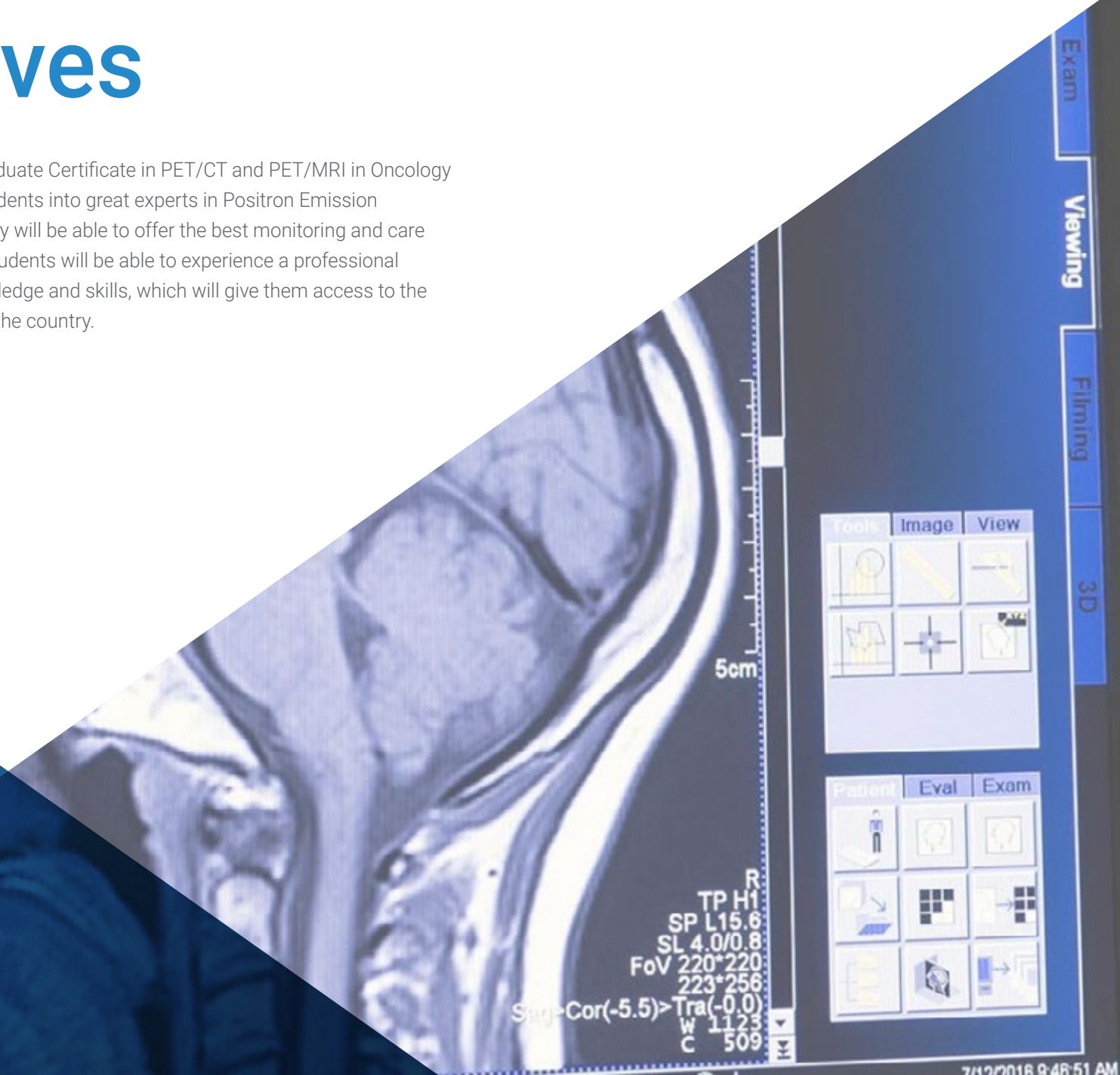
Enter the exciting world of Nuclear Medicine with this qualification.

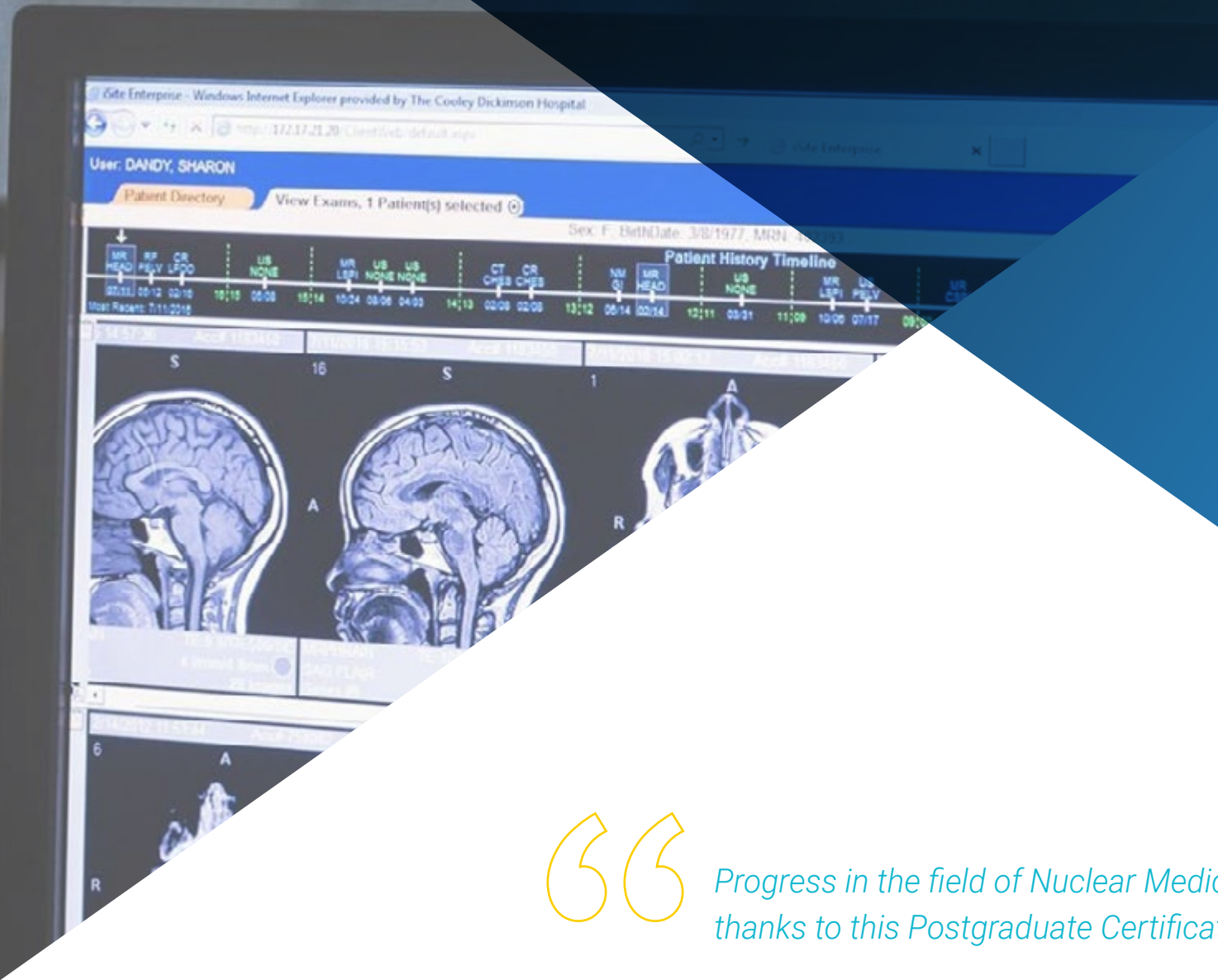
Specialize and progress in your Nuclear Medicine service. You won't regret it.



02 Objectives

The main objective of this Postgraduate Certificate in PET/CT and PET/MRI in Oncology Clinical Guidelines is to turn its students into great experts in Positron Emission Tomography (PET). In this way, they will be able to offer the best monitoring and care to their oncology patients. Thus, students will be able to experience a professional progress thanks to their new knowledge and skills, which will give them access to the best Nuclear Medicine services in the country.





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Progress in the field of Nuclear Medicine thanks to this Postgraduate Certificate”



General Objectives

- ♦ Update the specialist in Nuclear Medicine
- ♦ Perform and interpret functional tests in an integrated and sequential manner
- ♦ Achieve diagnostic guidance for patients
- ♦ Assist in deciding the best therapeutic strategy, including radiometabolic therapy, for each patient
- ♦ Apply clinical and biochemical criteria for the diagnosis of infections and inflammations
- ♦ Understand the particularities of Nuclear Medicine applied to pediatric patients
- ♦ Learn about the new therapies of Nuclear Medicine





Specific Objectives

- Delve into the role of PET/CT studies in tumors with the highest incidence
- Know its impact on diagnosis and staging and on response assessment and monitoring
- Analyze the positioning of the different scientific societies in the respective clinical guidelines

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Your oncology patients will benefit from your new skills in the field of Positron Emission Tomography”

03

Course Management

The teaching staff of this Postgraduate Certificate in PET-CT and PET-MRI in Oncology Clinical Guidelines has mastered the technique of Positron Emission Tomography and its applications to the oncological field and is an expert in Nuclear Medicine, so enrolling in this qualification is a great opportunity to become a specialist in the field. The faculty of this qualification will share all their knowledge with the students, so that they can apply it directly in their professional fields.



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Don't wait any longer: the best experts in Nuclear Medicine will share with you the keys to PET-CT and PET-MRI procedures”

International Guest Director

Dr. Stefano Fanti's prominent career has been entirely devoted to **Nuclear Medicine**. For almost 3 decades he has been professionally linked to the **PET Unit** at the **Polyclinic S. Orsola**. His exhaustive management as **Medical Director** of that hospital service allowed an exponential growth of the same, both its facilities and equipment. As a result, in recent years the institution has performed more than **12,000 radiodiagnostic examinations**, making it one of the **most active** in Europe.

Based on these results, the expert was selected to **reorganize** the **functions** of all the metropolitan centers with Nuclear Medicine tools in the region of Bologna, Italy. After this intensive professional task, he has held the position of **Referent of the Maggiore Hospital Division**. Also, still in charge of the PET Unit, Dr. Fanti has coordinated several grant applications for this center, receiving important funding from national institutions such as the Italian **Ministry of Universities** and the **Regional Health Agency**, Ministry of Universities.

On the other hand, this specialist has participated in many research projects on the clinical application of **PET** and **PET/CT technologies** in **Oncology**. In particular, he has investigated the approach to Lymphoma and **Prostate Cancer**. In turn, he has integrated the teams of many clinical trials with BCP requirements. In addition, he personally leads experimental analyses in the field of new PET tracers, including C-Choline, F-DOPA and Ga-DOTA-NOC, among others.

Also, Dr. Fanti is a collaborator of the **International Atomic Energy Organization (IAEA)**, participating in initiatives such as the consensus for the introduction of **radiopharmaceuticals for clinical use** and other advisory missions. He is also the author of more than 600 articles published in international journals and is a reviewer for The Lancet Oncology, The American Journal of Cancer, BMC Cancer, among others.



Dr. Fanti, Stefano

- ♦ Director of the Specialized School of Nuclear Medicine of the University of Bologna, Italy
- ♦ Director of the Division of Nuclear Medicine and of the PET Unit of Polyclinic S. Orsola
- ♦ Referent of the Division of Nuclear Medicine, Maggiore Hospital
- ♦ Associate Editor of Clinical and Translational Imaging, the European Journal of Nuclear Medicine and the Spanish Journal of Nuclear Medicine
- ♦ Reviewer for The Lancet Oncology, The American Journal of Cancer, BMC Cancer, European Urology, The European Journal of Hematology, Clinical Cancer Research, and other international journals
- ♦ Advisor to the International Atomic Energy Organization (IAEA)
- ♦ Member of: European Association of Nuclear Medicine

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

Management



Dr. Mitjavila, Mercedes

- ♦ Head of Nuclear Medicine Service Puerta de Hierro University Hospital Majadahonda, Madrid
- ♦ Project Manager of the Nuclear Medicine Unit in the Diagnostic Imaging Department of the Alcorcón Foundation University Hospital
- ♦ Head of Service of Nuclear Medicine of the Puerta de Hierro Hospital, Majadahonda. Competitive examination BOCM
- ♦ Degree in Medicine and General Surgery from the University of Alcalá de Henares
- ♦ MIR in Nuclear Medicine Specialist by the MIR System
- ♦ PhD in Medicine and General Surgery from the University of Alcalá de Henares
- ♦ Interim Physician of the Nuclear Medicine Service of the Ramón y Cajal Hospital
- ♦ Interim Physician in the Nuclear Medicine Unit at Getafe University Hospital



Professors

Dr. Mucientes, Jorge

- ♦ Nuclear Medicine Area Specialist at the Puerta de Hierro Majadahonda University Hospital
- ♦ Nuclear Medicine Resident Tutor at Puerta de Hierro University Hospital
- ♦ Coordinator of Quality of the Nuclear Medicine Service of the Puerta de Hierro University Hospital
- ♦ Degree in Medicine and Surgery. University of Alcalá
- ♦ PhD in Medicine Cum Laude, at the Complutense University of Madrid

04

Structure and Content

The contents of this Postgraduate Certificate in PET-CT and PET-MRI in Oncology Clinical Guidelines have been designed by leading experts in the field. Thus, the agenda addresses issues such as the application of Positron Emission Tomography for the detection and monitoring of lymphomas, breast cancer, lung cancer and digestive cancers, among others. This qualification, therefore, represents an in-depth study of this procedure, which is so useful and has so many possibilities in the present and future of oncological medicine.





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This syllabus will make you a great expert in Nuclear Medicine”

Module 1. PET/CT- PET/MRI in Oncology Clinical Guidelines

- 1.1. Nuclear Medicine in Different Tumors
 - 1.1.1. Staging and Prognosis
 - 1.1.2. Response to Treatment
 - 1.1.3. Monitoring and Diagnosis of Recurrence
- 1.2. Lymphomas
 - 1.2.1. Hodgkin's Lymphoma
 - 1.2.2. Diffuse Large B-cell Lymphoma
 - 1.2.3. Other Lymphomas
- 1.3. Breast Cancer
 - 1.3.1. Initial Staging
 - 1.3.2. Response to Neoadjuvant
 - 1.3.3. Monitoring
- 1.4. Gynecologic Tumors
 - 1.4.1. Vagina Cervix: Staging, Response to Treatment and Monitoring
 - 1.4.2. Endometrium: Staging, Response to Treatment and Monitoring
 - 1.4.3. Ovaries: Staging, Response to Treatment and Monitoring
- 1.5. Lung Cancer
 - 1.5.1. Non-small Cell Lung Carcinoma
 - 1.5.2. Small Cell Lung Carcinoma
 - 1.5.3. Response Assessment: Radiotherapy, Immunotherapy
- 1.6. Digestive System Tumors
 - 1.6.1. Esophago-Gastric
 - 1.6.2. Colorectal
 - 1.6.3. Pancreas
 - 1.6.4. Hepatobiliary: Hepatocarcinoma, Cholangiocarcinoma
- 1.7. Sarcomas
 - 1.7.1. Bones
 - 1.7.2. Soft Parts
- 1.8. Urogenitals
 - 1.8.1. Prostate
 - 1.8.2. Renal
 - 1.8.3. Bladder
 - 1.8.4. Testicle
- 1.9. Endocrine
 - 1.9.1. Thyroid
 - 1.9.2. Adrenal Gland
- 1.10. Radiotherapy Planning
 - 1.10.1. Acquisition of Exploration
 - 1.10.2. Volume Delimitation



Don't wait any longer, you know that these contents are the most in-depth and up to date on PET-CT and PET-MRI"



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 Harvard 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 multimedia content presentation training Exclusive system 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 your goals.



Classes

There is scientific evidence on the usefulness of learning by observing experts: The system termed Learning from an Expert strengthens knowledge and recall capacity, and generates confidence in the face of difficult decisions in the future.



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 PET/CT and PET/MRI in Oncology Clinical Guidelines guarantees, in addition to the most rigorous and up-to-date training, access to a certificate issued by TECH Global University.



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Successfully complete this training and receive your university certificate without travel or laborious paperwork”

This program will allow you to obtain your **Postgraduate Certificate in PET/CT and PET/MRI in Oncology Clinical Guidelines** 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 PET/CT and PET/MRI in Oncology Clinical Guidelines**

Modality: **online**

Duration: **6 weeks**

Accreditation: **6 ECTS**



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

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



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