

# Postgraduate Certificate

## Radiotherapeutic and Pharmacological Management of Brain Tumors





## Postgraduate Certificate Radiotherapeutic and Pharmacological Management of Brain Tumors

Modality: **Online**

Duration: **6 weeks**

Certificate: **TECH Technological University**

Official N° of hours: **100 h.**

Website: [www.techtute.com/us/medicine/postgraduate-certificate/radiotherapeutic-pharmacological-management-brain-tumors](http://www.techtute.com/us/medicine/postgraduate-certificate/radiotherapeutic-pharmacological-management-brain-tumors)

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# 01

# Introduction

The field of Neuro-Oncology is evolving rapidly, with promising research programs that has the potential to influence clinical management in the short- to medium-term future. Many important advances have been reported recently, and other promising research will substantially impact the field in the coming years, especially in the areas of high-grade gliomas and brain metastases. This program presents an overview of the current state of the field, highlighting the most recent key advances that will influence clinical management.



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*Improve your knowledge in Radiotherapeutic and Pharmacological Management of Brain Tumors through this program, where you will find the best educational material with real clinical cases. Learn about the latest advances in the specialty here, to be able to perform quality medical practice"*

As a summary, we will see how the histological heterogeneity of glioblastoma makes total eradication impossible, because residual cancer cells invade the parenchyma, which remains invisible to any radiographic technique. Even with macroscopic total resection, the heterogeneity and latent nature of tumor cells allows therapeutic evasion, which contributes to tumor recurrence and progression, and severely affects survival. Visual delineation of tumor margins with common surgical techniques has been a challenge faced by many surgeons, and in an attempt to achieve safe and optimal resection, advances have been developed and implemented that allow intraoperative analysis of cancerous and non-cancerous tissue, which has already led to improved outcomes. In addition, functional paradigms based on stimulation techniques to map brain electrical activity have optimized glioma resection in eloquent areas such as Broca's, Wernike's and perirhinal areas.

In this way, the diagnostic and therapeutic management of both primary and metastatic brain tumors will be analyzed. We will discuss current technologies used for the resection of gliomas, such as awake craniotomy, fluorescence-guided surgery, neuronavigation, neuroendoscopy, among many others.

Another advance that will be widely seen comes from the field of genomics whose advances have made it possible to learn that more than half of pediatric brain tumors have genetic abnormalities that could help in diagnosis or treatment, which is reflected in the recent decision of the World Health Organization to classify such tumors by genetic alterations, rather than by tumor type. Therefore, precision medicine for pediatric brain tumors is now a reality, and possibly in the near future also for adult brain tumors.

Lastly, another topic that we will analyze in this Postgraduate Certificate, to highlight some relevant ones, and which is gaining ground in other tumors, is immunotherapy. Immunotherapy has shown promise for the treatment of glioblastoma multiforme. This is because glioblastoma multiforme exhibits powerful adaptive capabilities, a relative lack of immunogenicity, an immunosuppressive tumor microenvironment and intratumoral heterogeneity. Therefore, experts agree that immune-targeted therapies are likely to play a central role in improving the durability of treatment.

This **Postgraduate Certificate in Radiotherapeutic and Pharmacological Management of Brain Tumors** contains the most complete and up-to-date scientific program on the market. Its most notable features are:

- ◆ More than 75 clinical cases presented by experts in Radiotherapeutic and Pharmacological Management of Brain Tumors
- ◆ 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-therapeutic developments on the evaluation, diagnosis, and intervention in Radiotherapeutic and Pharmacological Management of Brain Tumors. It contains practical exercises where the self-assessment process can be carried out to improve learning
- ◆ Iconography of clinical and diagnostic imaging tests
- ◆ An algorithm-based interactive learning system for decision-making in the clinical situations presented throughout the course
- ◆ With special emphasis on evidence-based medicine and research methodologies in Radiotherapeutic and Pharmacological Management of Brain Tumors
- ◆ 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



*Update your knowledge through this Postgraduate Certificate in Radiotherapeutic and Pharmacological Management of Brain Tumors”*

“

*This Postgraduate Certificate is the best investment you can make when selecting a refresher program, for two reasons: in addition to updating your knowledge in Special Brain Tumor Management, you will obtain a qualification from TECH Technological University"*

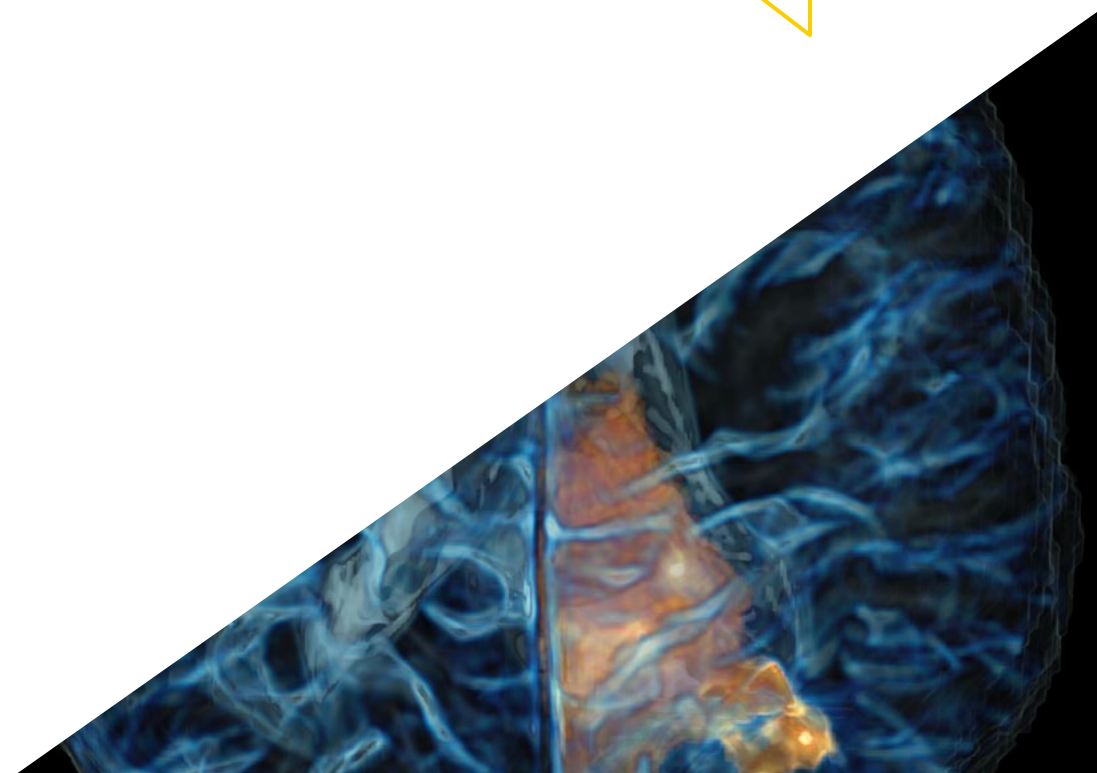
The teaching staff includes professionals in the field of Radiotherapeutic and Pharmacological Management of Brain Tumors, who bring their work experience to this program, in addition to recognized specialists belonging to leading scientific societies.

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

This program's design focuses on Problem-Based Learning, through which doctors must try to solve the different professional practice situations that arise during the academic year. For this purpose, doctors will be assisted by an innovative interactive video system created by renowned and experienced experts in the field of Radiotherapeutic and Pharmacological Management of Brain Tumors with extensive teaching experience.

*Increase your decision-making confidence by updating your knowledge through this Postgraduate Certificate.*

*Take the opportunity to learn about the latest advances in Radiotherapeutic and Pharmacological Management of Brain Tumors and improve patient care.*



# 02 Objectives

This Postgraduate Certificate in Radiotherapeutic and Pharmacological Management of Brain Tumors is aimed at facilitating doctors' performance in treating neurological oncological pathologies.





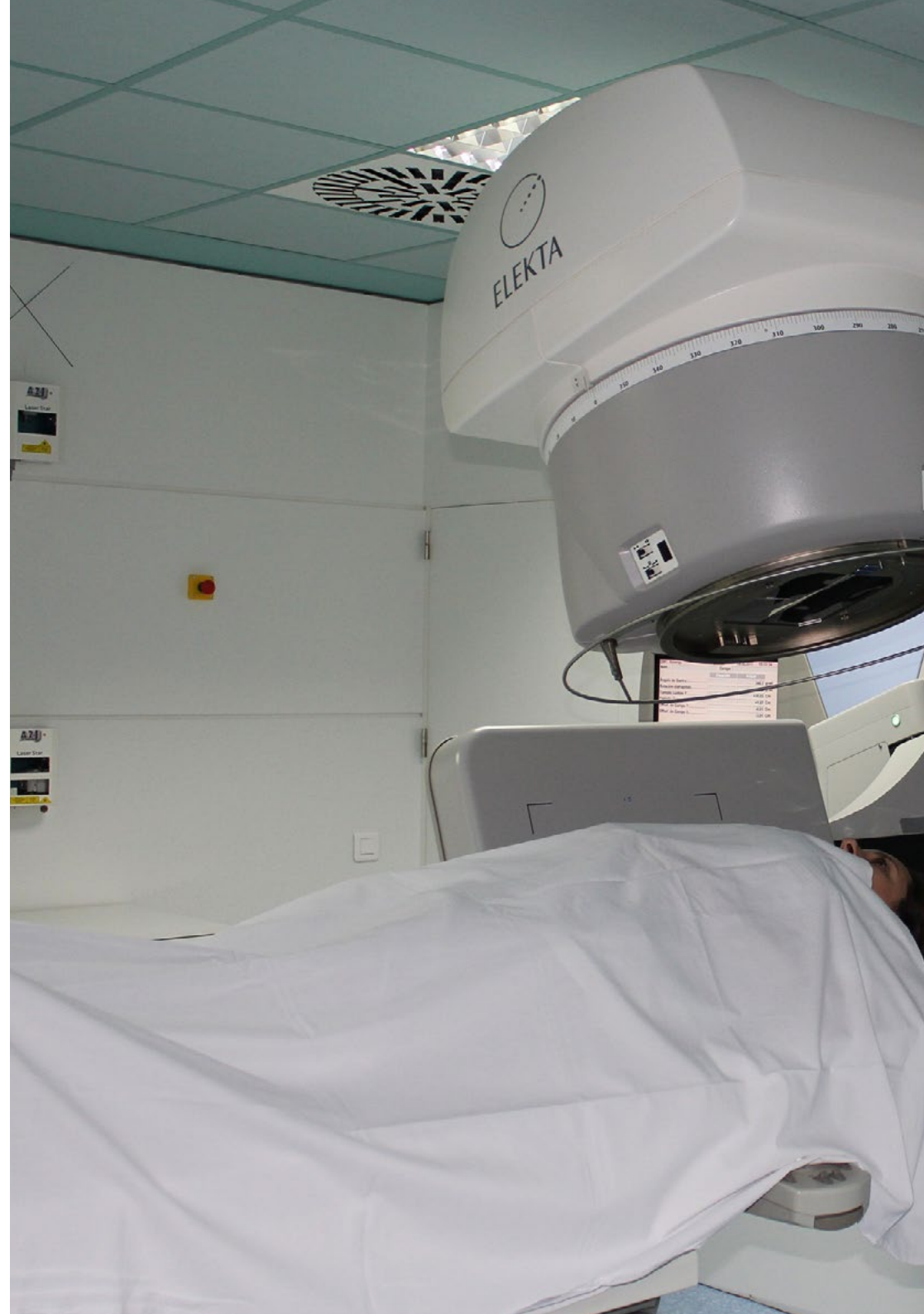
“

*This refresher course generates a sense of confidence in your medical practice, which will help you grow both personally and professionally”*



## General Objective

- Create a global and up-to-date vision of Radiotherapeutic and Pharmacological Management of Brain Tumors and all its aspects, allowing students to acquire useful knowledge while they generate interest in expanding the information and discovering its application in their daily practice





## Specific Objectives

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- ◆ Know radiotherapy management of brain metastases and primary brain tumors
- ◆ Delve into the impact of recent clinical trial results on clinical practice



*Make the most of this opportunity and take the leap to get up to date on the latest developments in Neurologic Oncology”*

03

# Course Management

The program's teaching staff includes leading specialists in Neurologic Oncology, and other related areas, who bring their years of work experience to this course. Additionally, other recognized specialists participate in its design and preparation, which means that the program is developed in an interdisciplinary manner.





“

*Learn about the latest procedure advances in the field of Radiotherapeutic and Pharmacological Management of Brain Tumors from leading professional”*

## Management



### Dr. Oruezábal Moreno, Mauro Javier

- ♦ Head of the medical Oncology Service at La Paz University Hospital since 2017.
- ♦ Research Fellow at University of Southampton (2016-present).
- ♦ Master's Degree in Bioinformatics and Biostatistics UOC-UB (2016-present)
- ♦ Master's Degree in bioinformatic analysis by the Pablo de Olavide University (2015-2016)
- ♦ Doctor of Medicine from the Complutense University of Madrid. Outstanding Cum Laude Qualification (2002).
- ♦ Member of the Spanish Society of Medical Oncology and GECP Group (Spanish Spanish Group of Lung)
- ♦ Specialist (MIR) in Medical Oncology, University Hospital San Carlos of Madrid (2000).
- ♦ Degree in Medicine and Surgery, University of Navarra (1995).



### Dr. Perez Martínez, David

- ♦ Head of the Neurology Department of the "12 de Octubre" University Hospital.
- ♦ Associated Professor in Medicine at the Complutense University of Madrid.(2012-present).
- ♦ Director of Neurowikia.com portal (2010-present).
- ♦ Director of the Brain Foundation (2010-2016).
- ♦ University Expert in Evidence-Based Medicine by the UNED (2007).
- ♦ University Expert in Probability and Statistics in Medicine, UNED (2003).
- ♦ MIR specialist in Neurology at the "12 de Octubre" University Hospital (1996-2000).
- ♦ Degree in Medicine from the Complutense University Madrid (1989 - 1995).



### Dr. Lagares Gómez Abascal, Alfonso

- ♦ Associate Professor of Neurosurgery, Complutense University of Madrid
- ♦ Accredited as Full University Professor of Health Sciences ANECA. 2008
- ♦ Master's Degree in Medical and Clinical Management from the National School of Health (2012- 2013).
- ♦ Doctor of Medicine from the Autonomous University Madrid. Outstanding Doctoral Thesis Award. (2004)
- ♦ Specialist (MIR) in Neurosurgery, 12 de Octubre University Hospital, (2002).
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## Professors

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- ♦ Neurology Department Neuropsychology 12 de Octubre University Hospital, Madrid

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- ♦ Head of Endocrinology and Nutrition Service at the Gerencia de Atención Integrada of Albacete

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- ♦ Antares Consulting

**Dr. Weber Sánchez, Alejandro**

- ♦ School of Bioethics, Universidad Anáhuac, Naucalpan de Juárez, Mexico

**Dr. Olivas Varela, José Ángel**

- ♦ Deputy Director, Department of Information Technologies and Systems, Higher School of Computer Science

**Dr. Perdices Ramírez, Javier**

- ♦ eHealth Director at Artica Telemedicina - CMC Group

**Dr. Cabrera Gonzalez, Miguel Luis**

- ♦ Head of IT Hospital Universitario Son Espases

# 04

# Structure and Content

The content structure has been designed by a team of professionals from the best hospitals and universities in the country, aware of the relevance of current knowledge to intervene in the diagnosis and treatment of Radiotherapeutic and Pharmacological Management of Brain Tumors pathology, and committed to quality teaching through new educational technologies.





“

*This Postgraduate Certificate in Radiotherapeutic and Pharmacological Management of Brain Tumors contains the most complete and up-to-date scientific program on the market”*

## Module 1. Radiotherapeutic and Pharmacological Management of Brain Tumors

- 1.1. Primary Brain Tumor Radiotherapy Management
- 1.2. Brain Metastases Radiotherapy Management
- 1.3. Clinical Trials: New Concepts Based on Precision Medicine
- 1.4. Results of Clinical Trials and Meta-Analyses with the Greatest Impact on Brain Tumor Clinical Practice
- 1.5. Real World Data Studies: Generating Knowledge







“

*A unique, key and decisive program 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.





“

*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.

“

*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.*



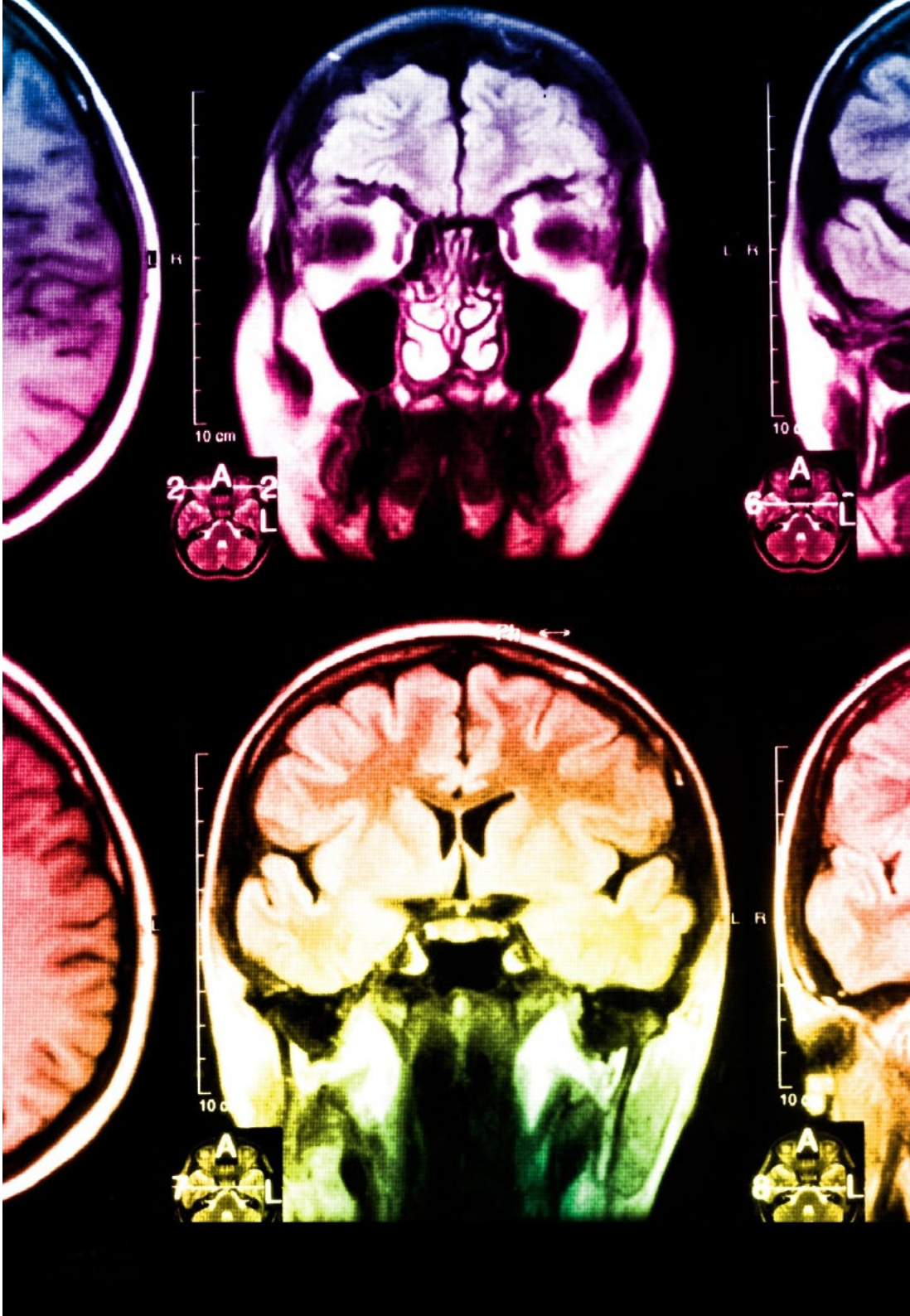
At the forefront of world teaching, the Relearning method has managed to improve the overall satisfaction levels of professionals who complete their studies, with respect to the quality indicators of the best online university (Columbia University).

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

This Postgraduate Certificate in Radiotherapeutic and Pharmacological Management of Brain Tumors guarantees you, in addition to the most rigorous and updated training, access to a Postgraduate Certificate issued by TECH Technological University.



“

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

This **Postgraduate Certificate in Radiotherapeutic and Pharmacological Management of Brain Tumors** 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 Radiotherapeutic and Pharmacological Management of Brain Tumors**

Official N° of hours: **100 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 Certificate

Radiotherapeutic  
and Pharmacological  
Management of  
Brain Tumors

Modality: Online

Duration: 6 weeks

Certificate: TECH Technological University

Official N° of hours: 100 h.

# Postgraduate Certificate

## Radiotherapeutic and Pharmacological Management of Brain Tumors