

Postgraduate Certificate

Advances in Techniques and
Materials in Interventional Radiology





Postgraduate Certificate

Advances in Techniques and Materials in Interventional Radiology

- » Modality: online
- » Duration: 6 months
- » Certificate: TECH Global University
- » Credits: 4 ECTS
- » Schedule: at your own pace
- » Exams: online

Website: www.techtute.com/us/medicine/postgraduate-certificate/advances-techniques-materials-interventional-radiology

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01

Introduction

Interventional radiology procedures have been evolving rapidly in recent years due to the development of new technologies, bioengineering and new materials. The knowledge of these advances, of the techniques and their implementation in the diagnostic and therapeutic process, make it essential for the specialist physician to be constantly updated in order to perform a quality clinical practice.





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The new scenarios in current Radiology push us to propose new specialization programs that meet the real needs of experienced professionals, so that they can incorporate the advances in materials and techniques into their daily practice"

Advances in Interventional radiology procedures undoubtedly improve patient outcomes, reducing the risk of complications in the most complicated diagnostic and therapeutic tests and improving patient prognosis.

Additionally, knowing the most appropriate radioprotection measures to minimize the risk of radiation exposure as well as those to successfully complete the techniques in the shortest possible time are the basis for a good clinical practice in Interventional radiology and image-guided therapy.

This program is oriented to facilitate the professional the update in the latest techniques of Interventional radiology, as well as to get up to date in the new materials of use, in a practical way through the latest educational technology.



You will be able to learn, through the latest educational technology, the latest advances in Interventional radiology techniques and new materials for use"

This **Postgraduate Certificate in Advances in Techniques and Materials in Interventional Radiology** contains the most complete and up-to-date scientific program on the market. It's most outstanding features are:

- Clinical cases presented by specialists in Radiodiagnostics and other specialties
- The graphic, schematic, and practical contents with which they are created, provide scientific and health care training on those medical disciplines that are essential to professional practice
- Real high-resolution images of echogenic techniques and the new materials in use
- An algorithm-based interactive learning system for decision-making in the clinical situations presented throughout the course
- Protocols for radioprotection and the most important advances in image-guided therapeutic techniques
- 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

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This Postgraduate Certificate is the best investment you can make in the selection of an updating program for two reasons: in addition to updating your knowledge in advances in techniques and materials in Interventional radiology, you will obtain a degree issued by TECH Global University"

The teaching staff includes a team of leading Radiologists who bring their professional experience to this specialization addition to renowned specialists in other medical areas.

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

The design of this program is based on Problem-Based Learning, through which the specialist must try to solve the different professional practice situations that arise throughout the training. To do so, they will be assisted by an innovative interactive video system created by renowned experts in the field of Radiology with extensive teaching experience.

Incorporate the latest developments in Interventional radiology and new materials into your medical practice and improve the prognosis of your patients.

It includes clinical cases and real images in high definition to bring clinical practice as close as possible to the development of the program.



02 Objectives

The main objective is oriented to allow the incorporation of the advances that are taking place in the approach to Interventional radiology techniques, ensuring that the specialist can update their knowledge in a practical way, with the latest educational technology and adapting the educational process to their real needs.





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This refresher program will provide you with the skills required for confident decision-making during the diagnostic process, and will help you to grow professionally”

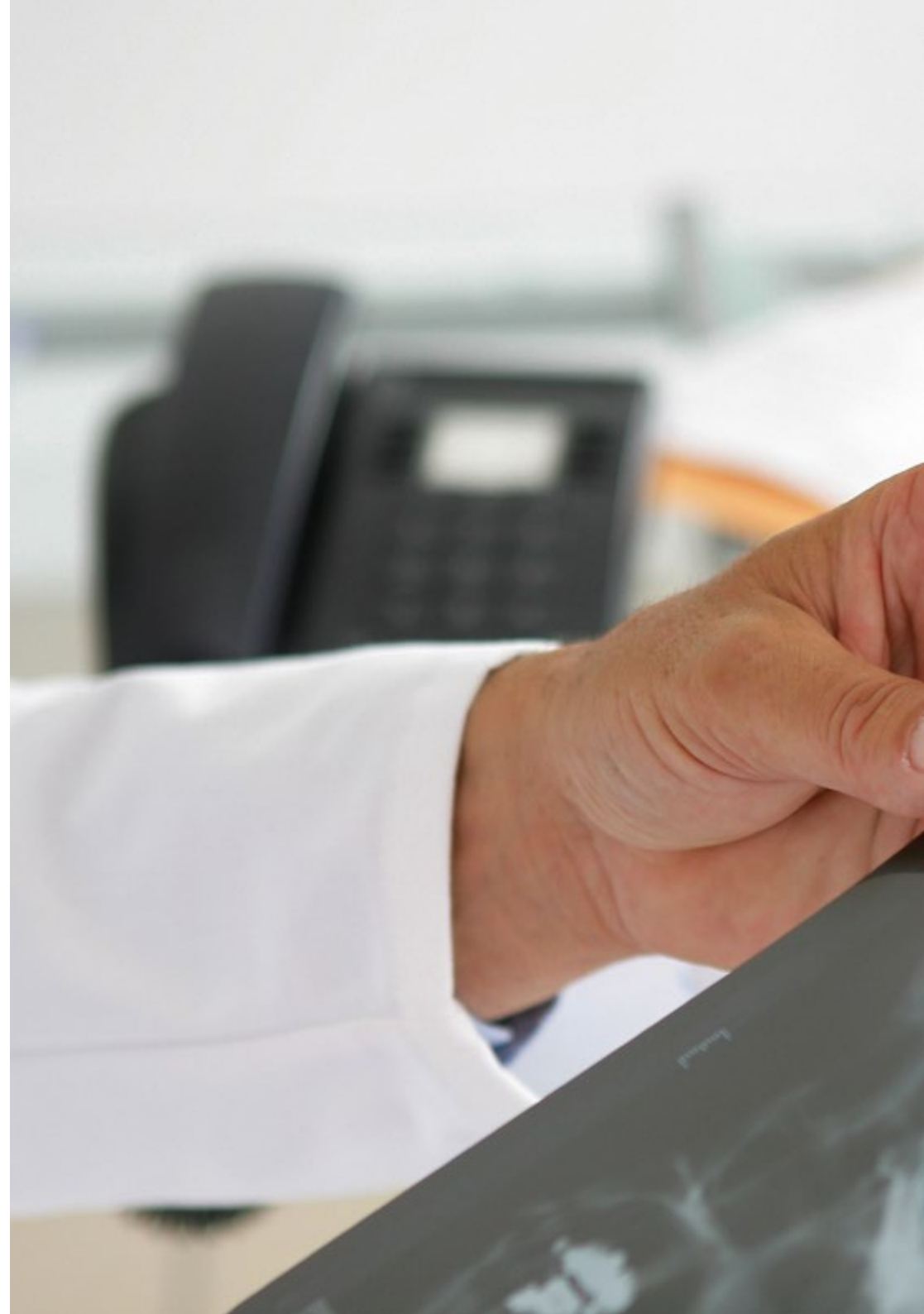


General Objective

- ♦ Update the medical specialist in the latest procedures of Interventional radiology and the new materials in use, incorporating these latest advances in the discipline to increase the quality of their daily medical practice and improve the patient's prognosis

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Take the opportunity to learn about the latest advances in this field in order to apply it to your daily practice”





Specific Objectives

- Describe the techniques for therapeutic neurointerventionism, their indications, alternatives, and medical management
- Address the treatment of cerebral vasospasm, ischemic stroke and intracerebral AVMs
- Identify the spinal vascular malformations
- Know the most commonly used materials in neurointerventionism
- Know and identify vascular, oncologic, musculoskeletal, drainage and non-vascular interventional materials, as well as materials for drainage and non-vascular interventions

03

Structure and Content

The structure of the curriculum has been designed by a team of professionals knowledgeable about the implications of medical specialization in the approach to diagnostic radiology procedures, aware of the relevance of current specialization and committed to quality teaching through new educational technologies.



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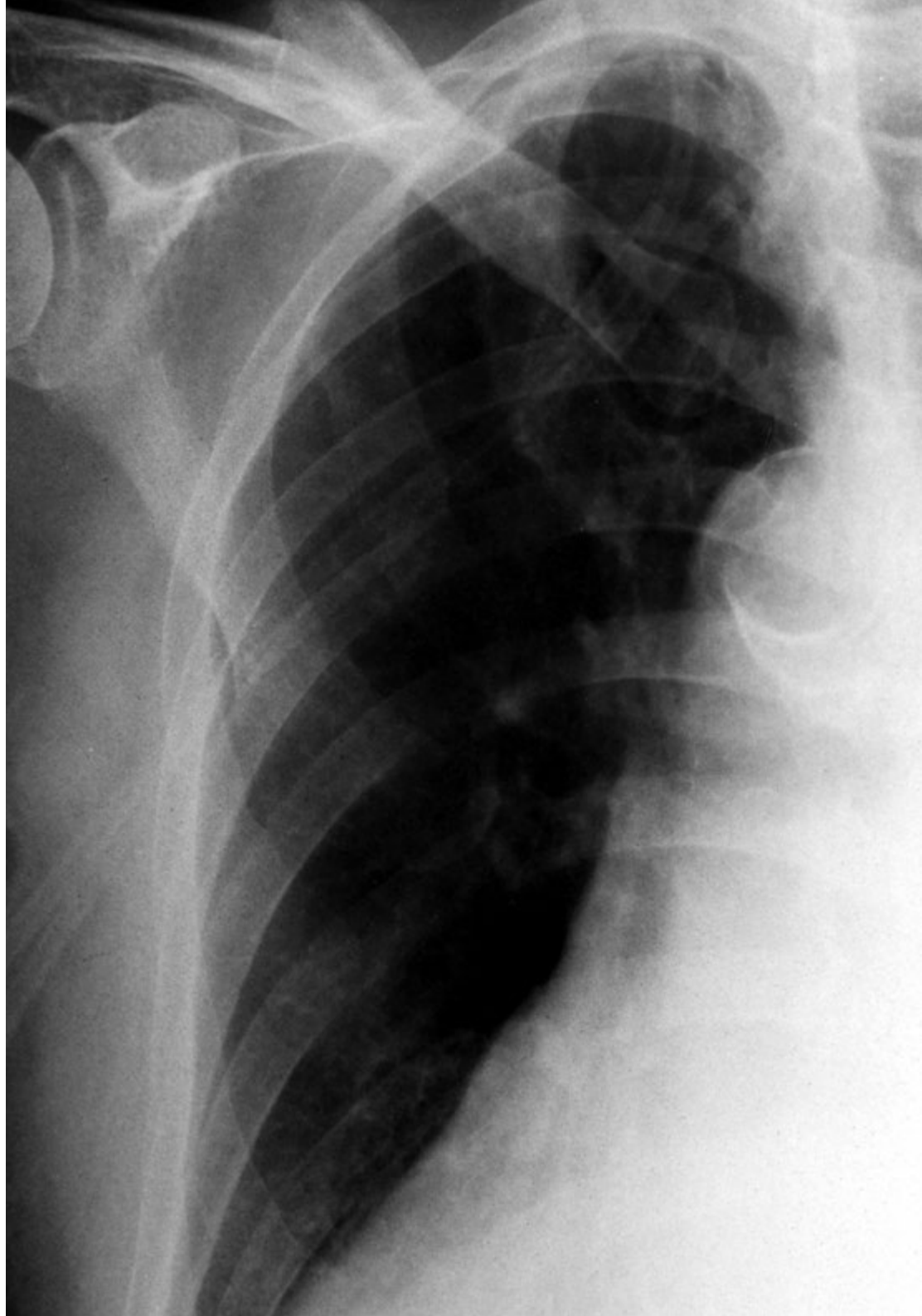
The Postgraduate Certificate in Advances in Techniques and Materials in Interventional Radiology contains the most complete and updated scientific program on the market"

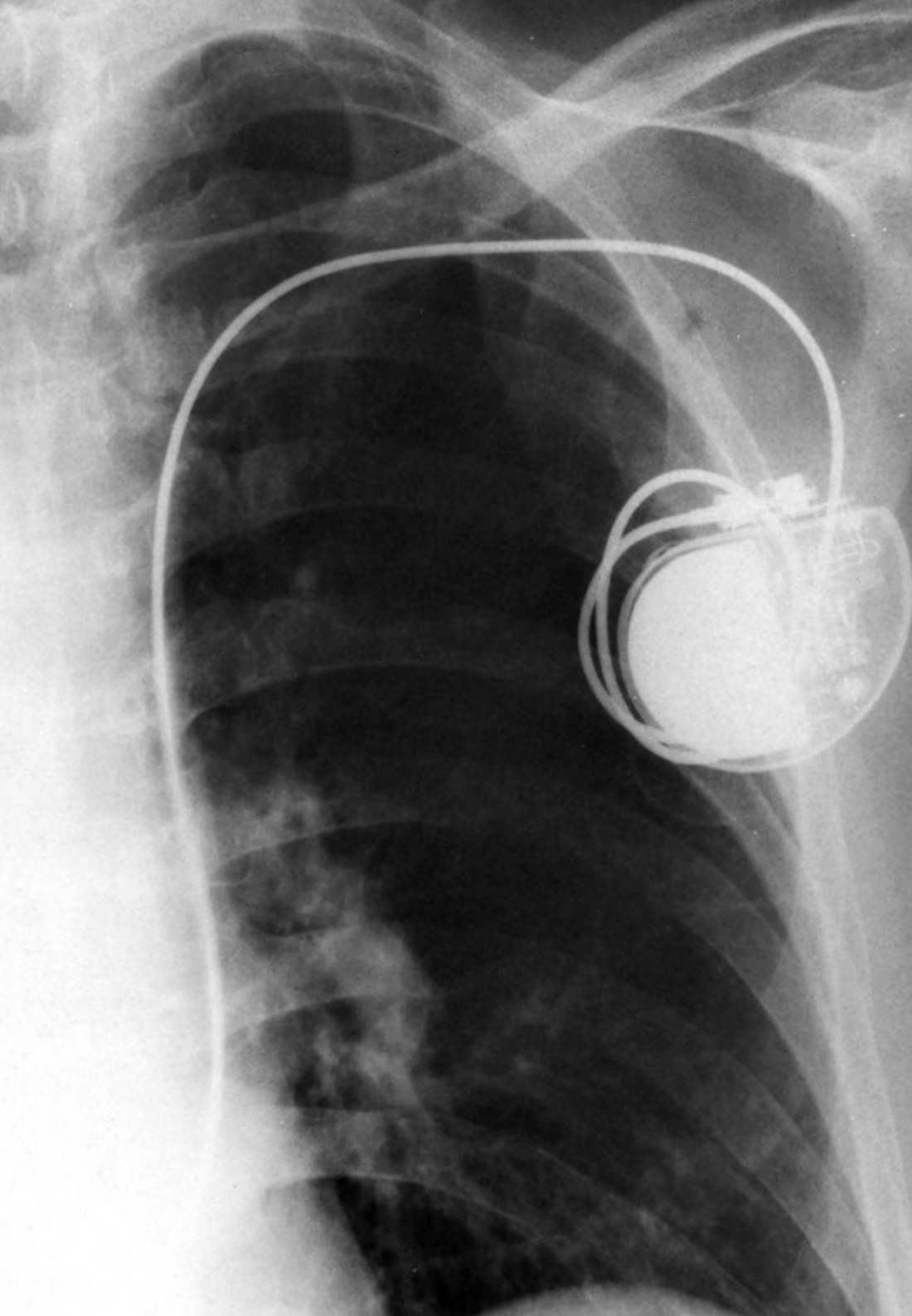
Module 1. Basis of Intervention Procedures

- 1.1. Radiological Protection in Interventional Procedures
- 1.2. Arterial and Venous Puncture for Interventional Access: Seldinger and Trocar Technique
- 1.3. Ultrasound Puncture for Vascular Access
- 1.4. Compression of Puncture Sites and Care

Module 2. Materials in Interventional Techniques

- 2.1. Materials in Neurointerventionism
- 2.2. Materials in Vascular Interventional Techniques
- 2.3. Materials in Oncologic Interventional Techniques
- 2.4. Materials in Musculoskeletal Interventional Techniques
- 2.5. Materials for Drainages and Non-Vascular





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*A unique specialization experience,
key and decisive to boost your
professional development"*

04

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.



05 Certificate

The Postgraduate Certificate in Advances in Techniques and Materials in Interventional Radiology guarantees you, in addition to the most rigorous and updated training, access to a degree issued by TECH Global University.



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

This program will allow you to obtain your **Postgraduate Certificate Advances in Techniques and Materials in Interventional Radiology** 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 Advances in Techniques and Materials in Interventional Radiology**

Modality: **online**

Duration: **6 weeks**

Accreditation: **4 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.



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