

Postgraduate Certificate

Equipment and Lasers Applied to Anti-Aging Medicine





Postgraduate Certificate Equipment and Lasers Applied to Anti-Aging Medicine

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

Website: www.techtute.com/medicine/postgraduate-certificate/equipment-lasers-applied-anti-aging-medicine

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01

Introduction

Anti-aging medicine has undergone a great revolution in the last decades favored by scientific and technological advances, which have allowed the appearance of new techniques and less invasive tools with great results for patients. At TECH we want you to be up to date in the latest devices and lasers applied to anti-aging medicine, and that is why we have designed this comprehensive academic program.





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Study with us and recognize the main equipment and laser techniques that you will be able to apply in your anti-aging medical practice”

The great advances in technology in recent decades have led to obvious improvements in all disciplines that affect the way of life of human beings, including, indisputably, the health sector. This revolution has led to an increase in the technical resources available in practically any field, including anti-aging medicine, allowing the use of newer and less invasive resources that favor patient intervention.

This Postgraduate Certificate presents the main equipment and laser techniques used in preventing and combating the signs of aging in the skin and other tissues, as well as their mechanism of action and beneficial effects, while also considering possible contraindications. Learning about the resources available in this Postgraduate Certificate will allow you to select the most effective equipment according to the problems presented by your patients, which will undoubtedly lead to a clinical practice with added value and significant benefits for the user.

To expand knowledge in this field, at TECH we have designed this Postgraduate Certificate, which specializes professionals to carry out a comprehensive approach to their patients from a multidisciplinary point of view. This way, we understand that only from a source of knowledge in disciplines that at first may seem independent, but which are closely interrelated, can a process as complex and multifactorial as aging be approached with guarantees.

This **Postgraduate Certificate in Equipment and Lasers Applied to Anti-Aging Medicine** contains the most complete and up-to-date scientific program on the market.

The most important features of the program include:

- ♦ Developing practical cases presented by experts in anti-aging 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
- ♦ New developments in the global approach to the patient
- ♦ Practical exercises where the self-assessment process can be carried out to improve learning
- ♦ Special emphasis on innovative methodologies in anti-aging medicine
- ♦ 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



Expand your knowledge through this Postgraduate Certificate until you achieve excellence in this field"

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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 of the anti-aging medical practice and the global approach to the patient, you will obtain a degree from TECH Technological University”

The teaching staff includes professionals from the field of Esthetics Medicine, who bring their 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 physician must try to solve the different professional practice situations that arise during the course. For this purpose, the professional will be assisted by an innovative interactive video system created by renowned and extensively experienced experts in the global approach to the patient in anti-aging medical practice.

Do not hesitate to take this training with us. You will find the best teaching material with virtual lessons.

This 100% online Postgraduate Certificate will allow you to combine your studies with your professional work while increasing your knowledge in this field.



02 Objectives

The Postgraduate Certificate in Equipment and Lasers Applied to Anti-Aging Medicine is oriented towards facilitating the professional's performance by using the latest advances and most innovative treatments in the sector, achieving a superior training that allows them to act with total confidence in the cases that arise in their practice.



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At TECH, our goal is to offer you the most comprehensive training in the market so that you can acquire a higher qualification that will elevate you to the professional elite”

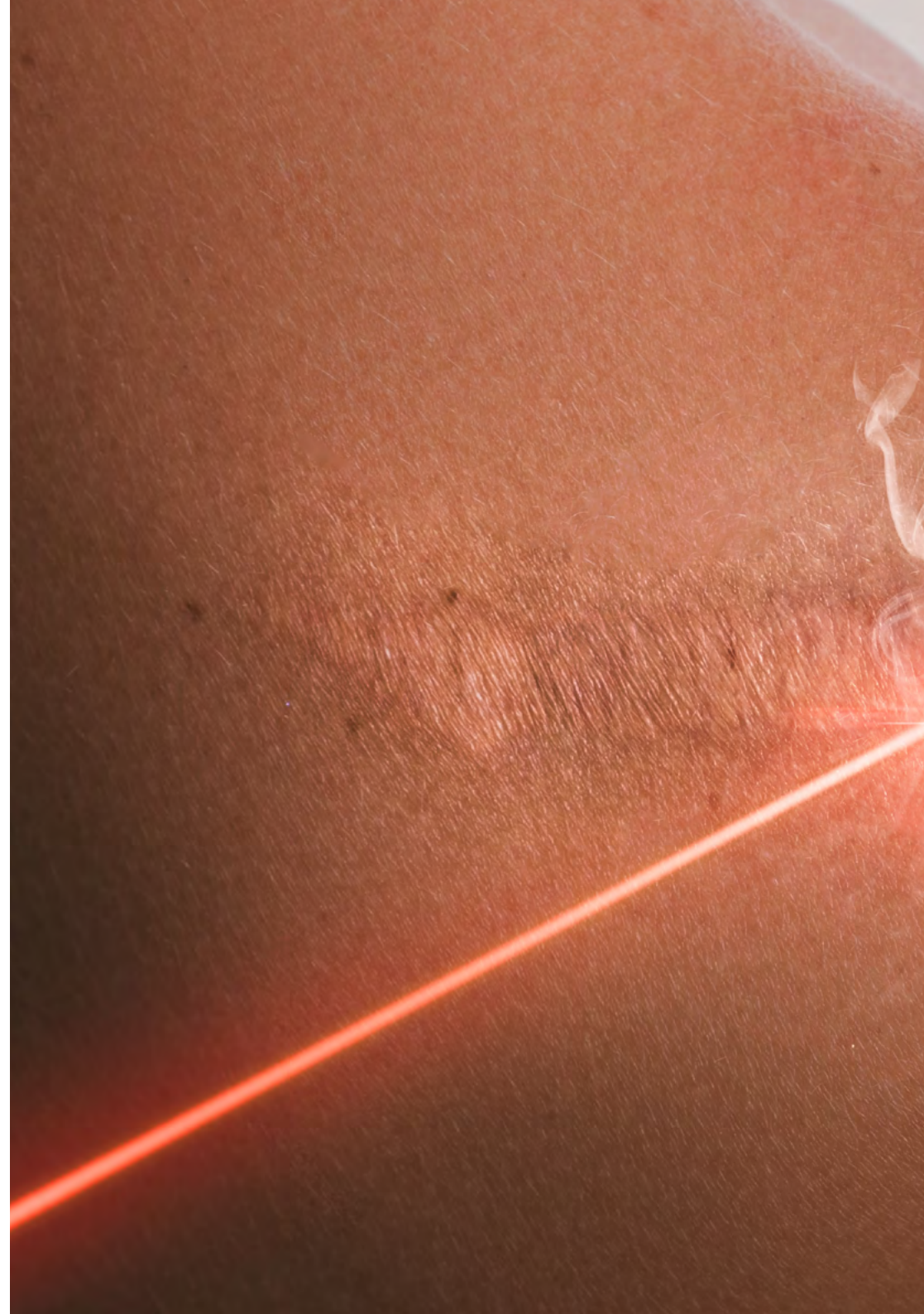


General Objectives

- Determine the need for the use of equipment as part of an anti-aging protocol
- Generate specialized knowledge on the main types of lasers with applications in anti-aging medicine
- Present technologies other than lasers with beneficial effects on aging



With this program we want to meet your objective of acquiring superior training in this highly demanded field"





Specific Objectives

- ♦ Address the physical principles of light sources
- ♦ Differentiate between the main types of lasers and the technologies that make them unique
- ♦ Develop applications in the prevention and treatment of skin aging and other tissues
- ♦ Analyze the mechanisms of action of other complementary technologies such as cryolipolysis, plasmalasers and radiofrequency
- ♦ Apply available knowledge to the development of treatment protocols
- ♦ Combine the different types of apparatus
- ♦ Identify the side effects that can occur with each piece of equipment

03

Course Management

The program's teaching staff includes leading experts in anti-aging techniques, who bring the experience of their work to this training. Additionally, other recognized experts participate in its design and preparation, completing the program in an interdisciplinary manner.



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*The leading experts in Esthetic
Medicine have joined forces to share
with you all their knowledge in this field"*

Management



Dr. Morante Tolbaños, Cristina

- Hair Surgeon at the Medical Laser Institute
- Professor of the Master in Hair Transplant at the Catholic University of Murcia since 2020
- Professor of the Master in Hair Medicine and Transplant at the Alcalá University of Henares since 2016
- Medical hair treatments and hair surgery Medical Management Hair Transplant 360° Hair Transplant. 2020-2021
- Medical Director Hair Surgery Unit MAN Clinic Madrid. 2019-2020
- Doctorate in Legal and Forensic Medicine from the Complutense University of Madrid
- Master's Degree in Hair Medicine and Transplant at Alcalá de Henares University
- Master' in Esthetics and Anti-Aging Medicine at Complutense University of Madrid
- Master in Accident and Emergency Medicine at the Complutense University of Madrid
- Master's Degree in Health and Social Action Center Management at Universidad Complutense de Madrid



04

Structure and Content

The structure of the content has been designed by the best professionals in the sector in anti-aging techniques, who have extensive experience and recognized prestige in the profession, backed by the volume of cases reviewed, studied, intervened, as well as extensive knowledge of new technologies applied to teaching.





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This Postgraduate Certificate contains the most complete and up-to-date scientific program on the market, which makes it your best study option”

Module 1. Appliances and Lasers Applied to Anti-Aging Medicine

- 1.1. Physical Principles of Light Sources
 - 1.1.1. Laser Definition
 - 1.1.2. Properties
 - 1.1.3. Laser Types
- 1.2. Intense Pulsed Light (IPL)
 - 1.2.1. Mechanism of Action
 - 1.2.2. Indications
 - 1.2.3. Protocol
 - 1.2.4. Side Effects and Contraindications
- 1.3. Q Switched Laser
 - 1.3.1. Mechanism of Action
 - 1.3.2. Indications
 - 1.3.3. Protocol
 - 1.3.4. Side Effects and Contraindications
- 1.4. Erbium Laser
 - 1.4.1. Mechanism of Action
 - 1.4.2. Indications
 - 1.4.3. Protocol
 - 1.4.4. Side Effects and Contraindications
- 1.5. NEODIMIO-yAG Laser
 - 1.5.1. Mechanism of Action
 - 1.5.2. Indications
 - 1.5.3. Protocol
 - 1.5.4. Side Effects and Contraindications
- 1.6. Fractional CO2 Laser
 - 1.6.1. Mechanism of Action
 - 1.6.2. Indications
 - 1.6.3. Protocol
 - 1.6.4. Side Effects and Contraindications





- 1.7. Plasmalaser
 - 1.7.1. Mechanism of Action
 - 1.7.2. Indications
 - 1.7.3. Protocol
 - 1.7.4. Side Effects and Contraindications
- 1.8. Radiofrequency 1
 - 1.8.1. Mechanism of Action
 - 1.8.2. Indications
 - 1.8.3. Protocol
 - 1.8.4. Side Effects and Contraindications
- 1.9. Radiofrequency 2
 - 1.9.1. Mechanism of Action
 - 1.9.2. Indications
 - 1.9.3. Protocol
 - 1.9.4. Side Effects and Contraindications
- 1.10. Cryolipolysis
 - 1.10.1. Mechanism of Action
 - 1.10.2. Indications
 - 1.10.3. Protocol
 - 1.10.4. Side Effects and Contraindications

“ *This will provide key training
to advance your career* ”

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

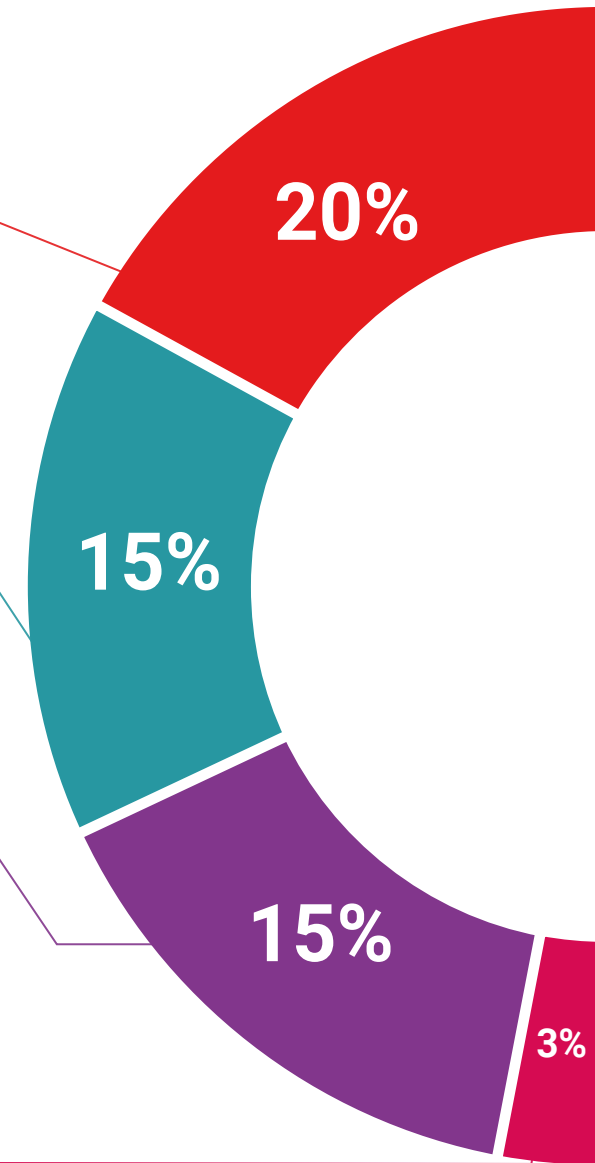
The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

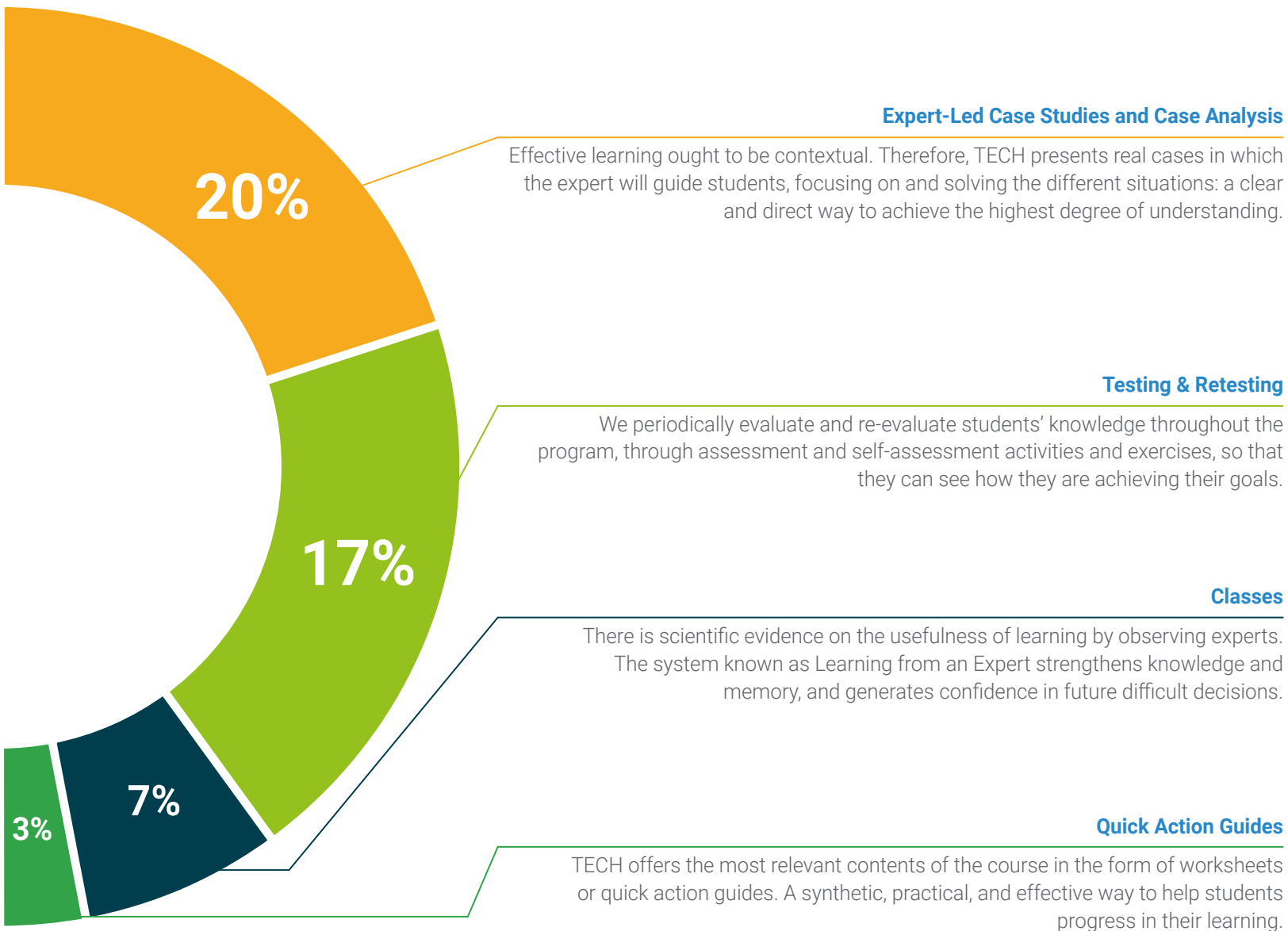
This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



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 Equipment and Lasers Applied to Anti-Aging Medicine guarantees, in addition to the most rigorous and updated training, access to a Postgraduate Certificate issued by TECH Global University.



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

This private qualification will allow you to obtain a **Postgraduate Certificate in Equipment and Lasers Applied to Anti-Aging Medicine** 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** private qualification 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.

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