

# Postgraduate Certificate

## Treatment with Light Sources





## Postgraduate Certificate Treatment with Light Sources

- » Modality: online
- » Duration: 8 weeks
- » Certificate: TECH Technological University
- » Dedication: 16h/week
- » Schedule: at your own pace
- » Exams: online

Website: [www.techtute.com/us/medicine/postgraduate-certificate/treatment-light-sources](http://www.techtute.com/us/medicine/postgraduate-certificate/treatment-light-sources)

# Index

01

Introduction

---

*p. 4*

02

Objectives

---

*p. 8*

03

Course Management

---

*p. 12*

04

Structure and Content

---

*p. 18*

05

Methodology

---

*p. 22*

06

Certificate

---

*p. 30*

# 01

# Introduction

In acne treatment there are cases in which medical treatments are contraindicated or have not been effective. And there are also cases in which it is the patient themselves who wishes to avoid pharmacological treatments and seeks other options. Dermatologists have a whole arsenal of physical treatments at their disposal, among which light sources stand out.

These are alternatives that the professional needs to know in an up-to-date way.

This program has been created to offer an essential update in a simple and effective way. Throughout the program, the student will achieve the skills of a first-level professional with the management and mastery of the most advanced procedures and techniques of the current medical panorama.





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*The specific management of acne specifically developed in a highly efficient Postgraduate Certificate, with a practical approach of high-educational effectiveness”*

Lasers are not only used to correct residual scars, but also to treat active cases of acne.

It is essential to know which type of laser is the most appropriate in each case. Depending on the wavelength, the beam will reach a greater or lesser depth and will be absorbed by one chromophore or another.

It should also be possible to determine the most suitable parameters to achieve optimal results with less risk of side effects.

An emerging treatment in recent years is biophotonic therapy. It consists of the application of a gel that, after being stimulated with light, emits fluorescence that will reduce inflammation and eliminate P acnes. It achieves very satisfactory results with an excellent safety profile.

Photodynamic therapy, so widely used in cutaneous oncology, is gaining new indications in inflammatory and infectious diseases, including acne.

A comprehensive compendium of knowledge that will cover these and other essential issues in the treatment of acne.

This **Postgraduate Certificate in Treatment with Light Sources** contains the most complete and up-to-date scientific program on the market. Its most notable features are:

- ◆ Development of a large number of case studies presented by experts
- ◆ Graphic, schematic, and highly practical contents
- ◆ The latest developments and cutting-edge advances in this area
- ◆ Practical exercises where the self-evaluation process can be carried out to improve learning
- ◆ Innovative and highly efficient 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



*Improve the quality of care for your patients with this highly scientifically rigorous program"*

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*The latest advances in the field of Acne compiled in a highly efficient educational Postgraduate Certificate, which will optimize your effort with the best results”*

The development of this program is focused on practicing the proposed theoretical learning Through the most effective teaching systems, proven methods imported from the most prestigious universities in the world, you will be able to acquire new knowledge in a practical way. In this way, we strive to convert your efforts into real and immediate skills.

Our online system is another of the strengths of our educational proposal With an interactive platform that has the advantages of the latest technological developments, we put the most interactive digital tools at your service. This way, we can offer you a learning method that can be completely adapted to your needs, so that you can perfectly combine this program with your personal or professional life.

*All the necessary methodology for an effective approach in the field of Acne, in a specific and concrete Postgraduate Certificate.*

*A program designed to allow you to implement the knowledge that you acquire almost immediately in your daily practice.*



# 02 Objectives

The objective of this Postgraduate Certificate in Treatment with Light Sources is to offer medical professionals a comprehensive pathway to acquire neurological knowledge and skills for routine clinical practice, or to update on the latest advances in this field of intervention. A practical and effective way to keep you at the forefront of a constantly evolving profession.







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*TECH's objective is simple: to help you get the most complete update in the field of Acne treatment in a Postgraduate Certificate totally compatible with your work and personal obligations"*



## General Objectives

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- ◆ Gain fully up-to-date knowledge of the different therapeutic options available for the treatment of acne
- ◆ Diagnose those cases of acne secondary to systemic pathologies or external agents that require specific management
- ◆ Know and be able to indicate and apply the different modalities of available physical therapies
- ◆ Know the paths of research and possible future directions of treatment
- ◆ Know how to treat obstinate cases resistant to the usual therapies
- ◆ Detect and anticipate possible complications and side effects of each treatment
- ◆ Be able to diagnose psychopathological alterations that are secondary to the disease itself or to treatments, which affect the patient's life in relationships and the fulfilment of the patient as a person
- ◆ Individualize the management of the aesthetic after-effects of acne, choosing and combining the best options from among the multiple techniques available





## Specific Objectives

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- ◆ Indicate and configure the most suitable parameters for treatments with light sources
- ◆ Know the basics of biophotonic therapy and photodynamic therapy, as well as the most appropriate treatment guidelines in each case

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*An opportunity created for professionals who are looking for an intensive and effective course with which to take a significant step forward in their profession”*

03

# Course Management

This very complete Postgraduate Certificate is taught by leading specialists in acne. Trained in different fields of clinical care and practice, all of them experienced in teaching and research in various areas of the nervous system and with the necessary management knowledge to give a broad, systematic and realistic vision within the complexity of this field, this group of programs will accompany you throughout the program, putting at your service their real and up-to-date experience.





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*Learn from leading professionals,  
the latest advances in procedures  
in the field of Acne Treatment”*

## International Guest Director

Dr. Joshua Zeichner is an international eminence in the field of Dermatology and Cosmetic Medicine. In both fields he has based his professional career, acquiring the most advanced skills in care and for the development of empirical studies. Based on these skills of excellence, the expert has taken on challenges such as the position of Director of Cosmetic and Clinical Research in the Department of Dermatology at Mount Sinai Hospital in the United States.

He has also been awarded the prestigious Skin Genius Award by Elle magazine for his innovative approaches to the treatment of aging skin and faces. In turn, his peers have voted for his name to fill New York Magazine's Best Doctors lists since 2018. Also, he has had rankings as one of the Top Doctors in the New York Metropolitan Area by Castle Connolly and New York City Super Doctors, renowned catalogs that evidence Dr. Zeichner's dedication to his patients.

In addition to his medical knowledge and practice, often focused on Acne, this expert has therapeutically addressed other pathologies and general skin conditions. Among them, he has stood out for his comprehensive management of Eczema, Rosacea, Psoriasis and Cancer in different areas of the epidermis. At the same time, he has mastered the use of Botox and dermal fillers, as well as Laser and Chemical Peels.

Dr. Zeichner's opinion is also frequently used by the media. For this reason, his name has been mentioned many times in reports published by magazines and newspapers such as Allure, Vogue, Cosmopolitan, Elle, Glamour and The New York Times. Likewise, he regularly participates in congresses and lectures on Dermatology around the world.



## Dr. Zeichner, Joshua

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- Director of Cosmetic and Clinical Research in Dermatology at Mount Sinai Hospital
- Specialist in Dermatologic Cosmetics, Acne Treatment and Anti-Aging Skin.
- Physician Consultant at Mount Sinai Beth Israel, Mount Sinai Brooklyn, Mount Sinai Queens and Mount Sinai West hospitals
- Officially Board Certified by the American Board of Dermatology
- Specialist Practitioner at St. Vincent Brooklyn Queens Catholic Medical Center
- John Hopkins University, M.D.
- Dermatology Residency and Dermopharmacology Fellowship at The Mount Sinai Hospital
- Graduate of the University of Pennsylvania

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

## Management



### Dr. Leis Dosil, Vicente Manuel

- ◆ Dermatologist at IDELIA Clinic
- ◆ Degree in Medicine and Surgery Faculty of Medicine and Dentistry University of Santiago de Compostela
- ◆ University Expert Certificate in Medical and Surgical Dermatology by the University of Alcalá de Henares
- ◆ University Expert certificate in Health Services Management through the UNED

## Professors

### Dr. Ruiz de Almirón, Antonio Clemente

- ◆ Dermatologist, University of Granada

### Dr. Olivares Rueda, Teresa

- ◆ Degree in Medicine and Surgery from the University of Murcia





# 04

## Structure and Content

The structure of the contents has been designed by a team of professionals, aware of the current relevance of the program in order to advance in the labor market with confidence and competitiveness, and to practice the profession with the excellence that only the best qualification allows.





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*This Postgraduate Certificate contains the most complete and up-to-date scientific program on the market”*

## Module 1. Light Source Treatment of Active Acne

- 1.1. Intense Pulsed Light
- 1.2. Pulsed Dye Laser
- 1.3. Nd Laser: YAG
- 1.4. Erbium Laser
- 1.5. KTP Laser
- 1.6. Infrared Laser
- 1.7. Photodynamic Therapy
  - 1.7.1. Photosensitizers
  - 1.7.2. Light Sources
  - 1.7.3. Protocols
- 1.8. Biophotonic Therapy
  - 1.8.1. Mechanism of Action
  - 1.8.2. Procedure
  - 1.8.3. Treatment Guidelines
- 1.9. LEDs and Acne
- 1.10. New Light Sources





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*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.



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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.

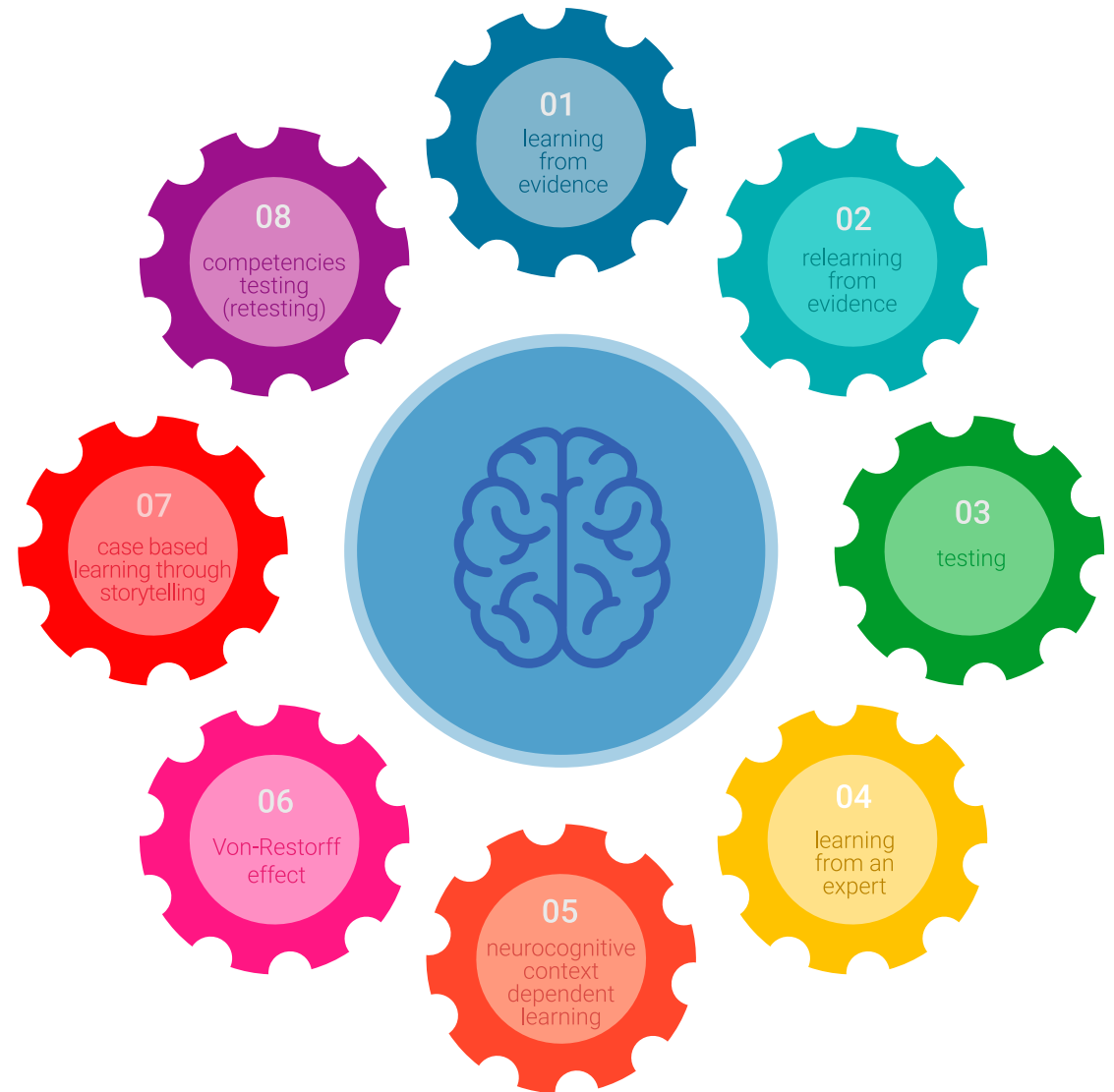


## Relearning Methodology

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.

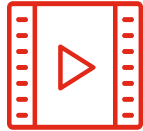
*Relearning will allow you to learn with less effort and better performance, involving you more in your specialization, developing a critical mindset, defending arguments, and contrasting opinions: a direct equation to success.*

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.



06

# Certificate

The Postgraduate Certificate in Treatment with Light Sources guarantees you, in addition to the most rigorous and updated education, access to a Postgraduate Certificate issued by TECH Technological University.





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

This **Postgraduate Certificate in Treatment with Light Sources** contains the most complete and up-to-date 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 Treatment with Light Sources**

Official N° of hours: **150 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.



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



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Sources

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- » Certificate: TECH Technological University
- » Dedication: 16h/week
- » Schedule: at your own pace
- » Exams: online

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