





Postgraduate Certificate

Low Vision and Geriatric Optometry

Course Modality: Online

Duration: 6 weeks

Certificate: TECH - Technological University

6 ECTS Credits

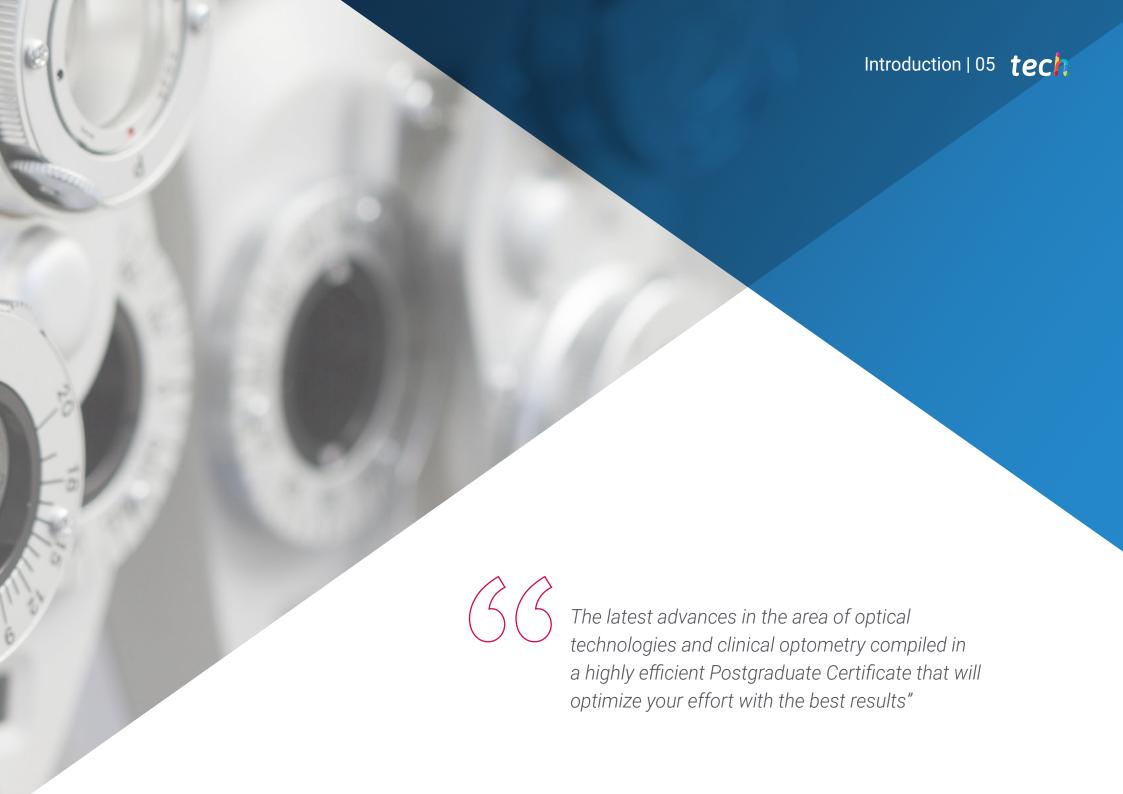
Teaching Hours: 150

Website: www.techtitute.com/us/medicine/postgraduate-certificate/low-vision-geriatric-optometry

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Continuous training in the latest optometric technologies and treatments is essential in professional updating, preparing to take on jobs that are increasingly integrated into the healthcare system, both public and private.

The Professional Certificate in Low Vision and Geriatric Optometry covers the main fields of optometrist action, always highly updated and with a first level teaching staff. The study plan has been designed from the perspective and experience of experts highly specialized in their modules, and immersed in the clinical world, which has led us to know the current and future training challenges.

This program will present the latest advances in the knowledge and examination of low vision, new classifications and treatments, as well as the initial approach to these patients and to the follow-up process.

This training has been clearly and robustly directed to the clinical field, preparing students to develop in this field with extensive theoretical and practical knowledge in optometry.

Students will follow modules, each of them structured in 10 topics. Each topic consists of a theoretical introduction, explanations by the professor, activities, etc., in such a way that learning becomes an enjoyable journey to high-level knowledge in Optical Instrumentation and Clinical Optometry.

In conclusion, this Postgraduate Certificate provides professionals with the theoretical and clinical knowledge necessary to address any of the specialties within Optics and Optometry, as well as opening the door to clinical research.

This **Postgraduate Certificate in Low Vision and Geriatric Optometry** is the most complete and up-to-date scientific program on the market. The most important features of the program include:

- More than 100 clinical cases presented by experts in the different specialties.
- 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.
- The latest developments in Low Vision and Geriatric Optometry.
- The presentation of hands-on workshops on procedures, diagnostic and therapeutic techniques.
- An algorithm-based interactive learning system for decision-making in the clinical situations presented throughout the course.
- 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.



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



This Postgraduate Certificate is the best investment you can make in selecting a refresher program to update your knowledge of Low Vision and Geriatric Optometry"

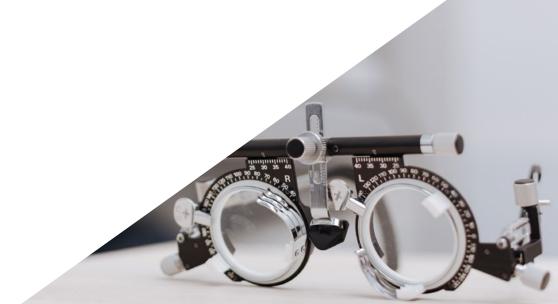
Its teaching staff includes professionals belonging to the field of nutrition, who contribute their work experience to this training, as well as renowned specialists from reference societies and prestigious universities.

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. The professional will be assisted by an innovative, interactive video system created by renowned and experienced experts in Low Vision and Geriatric Optometry.

All the necessary methodology for nonspecialist medical professionals in the field of clinical optometry, in a specific and concrete Postgraduate Certificate.

We have the best didactic material, an innovative methodology and a 100% online training, which will facilitate your study.







tech 10 | Objectives



General Objectives

 Learn the most advanced examination and treatment techniques for low vision, updating new concepts and techniques to apply directly in professional clinical practice







Specific Objectives

- In-depth knowledge of the types of conditions that cause mild, medium and severe visual impairment
- In-depth knowledge of the visual alterations that occur in the different types of pathologies and non-ocular conditions that affect the visual system
- Learn the visual examination protocol to be performed for the detection and follow-up of the patient with low vision Know TR techniques applied to patients
- Present the latest advances in low vision aids, examination techniques, and patient and family support
- In-depth knowledge of the new protocols for examination, treatment and action in a multidisciplinary manner
- Broaden professional projection, being able to evaluate, diagnose and treat patients with low vision, who are currently neglected to a great extent by optometrists, since it is still a "young" discipline, unknown to society and a great part of eye care professionals.





tech 14 | Course Management

Management



Dr. Calvache Anaya, José Antonio

- Doctor in Optometry and Vision Sciences
- Postgraduate Diploma in Statistics Applied to Health Sciences
- Optometrist at Clínica Baviera in Palma de Mallorca

Professors

Professor Ricardo Roca Fernández Villar

- ◆ Optometrist Optician. RCO Retiplus , Acesight , Orcam My Eye electronic glasses for visual impairment.
- Specialist in Low Vision in the Ophthalmology Service of Quirón Málaga.







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Module 1. Low Vision and Geriatric Optometry

- 1.1. Low Vision, Definition and Current Classifications
 - 1.1.1. Definition, New Terms and Concepts
 - 1.1.2. What Is a Low Vision Test?
 - 1.1.3. Functional Vision
 - 1.1.4. New Concept of Fragile Vision
 - 1.1.5. Different Classifications, a Single Protocol?
 - 1.1.6. Statistics Related to Visual Impairment of All Types
 - 1.1.7. Acceptions and Terminology
 - 1.1.8. Low Vision Statistics
 - 1.1.9. Low Vision Decalogue
- 1.2 Ocular Pathologies and Other Conditions Causing Low Vision
 - 1.2.1. Degenerative and Non-Degenerative Pathologies
 - 1.2.2. Classification of These Pathologies According to Their Condition
 - 1.2.3. Physiopathogenesis
 - 1.2.4. Risk Factors
 - 1.2.5. Current Evolution of These Pathologies, Epidemiology
 - 1.2.6. Adjustment Process to Visual Impairment
 - 1.2.7. Low Vision in Children and Infants
- 1.3. Anamnesis in Low Vision and Multidisciplinary Intervention
 - 1.3.1. Preliminary Considerations
 - 1.3.2. Guidelines for Interacting with Low Vision Individuals
 - 1.3.3. Role of the Patient's Family and/or Companions
 - 1.3.4. How to Communicate the Information
 - 1.3.5. Accompanying the Low Vision Individuals
 - 1.3.6. Patient Selection, Success or Failure, Outcome Prognoses

- 1.4. Clinical Intervention Protocol for Low Vision Individuals or Who Suffer Moderate to Severe Visual Loss
 - 1.4.1. WHO Diagram
 - 1.4.2. Individuals Eligible for Low Vision Adaptive Aids and Visual Rehabilitation
 - 1.4.3. Improved Intervention for People with Low Vision, Fragile Vision, or Neurological Injuries
 - 1.4.4. Tips for Professionals to Help Patients and Family Members
 - 1.4.5. Interdisciplinary Referral Protocol
 - 1.4.6. Interaction Visually Impaired Individuals
 - 1.4.7. Same Conditions, Different Solutions
- .5. Low Vision Consultation Material
 - 1.5.1. Attitude and Aptitude
 - 1.5.2. Material in Low Vision and Geriatrics
 - 1.5.3. Tests Required for Evaluation
 - 1.5.4. Which Commercial Products Are Useful?
 - 1.5.5. Organizing a Low Vision Consultation
 - 1.5.6. Patient and Family Support Reports
- 1.6. Low Vision and Geriatric Vision Patient Examination
 - 1.6.1. Core Values in Caring for Low Vision and Geriatric Patients
 - 1.6.2. Dunning-Kruger Effect in Professionals
 - 1.6.3. Refraction in Low Vision Patients
 - 1.6.4. Distant Vision
 - 165 Near Vision
 - 1.6.6. What Does the Patient Want?
- 1.7. Visual and Non-visual Aids in Visual Limitation, Low Vision and Geriatrics
 - 1.7.1. Optical Aids, Classification
 - .7.2. Non-Optical Aids Environment in Low Vision Patients
 - 1.7.3. Electronic Aids, Classification and Utility
 - 1.7.4. Latest Technologies and Artificial Intelligence for Low Vision
 - 1.7.5. How to Create Positive Circumstances

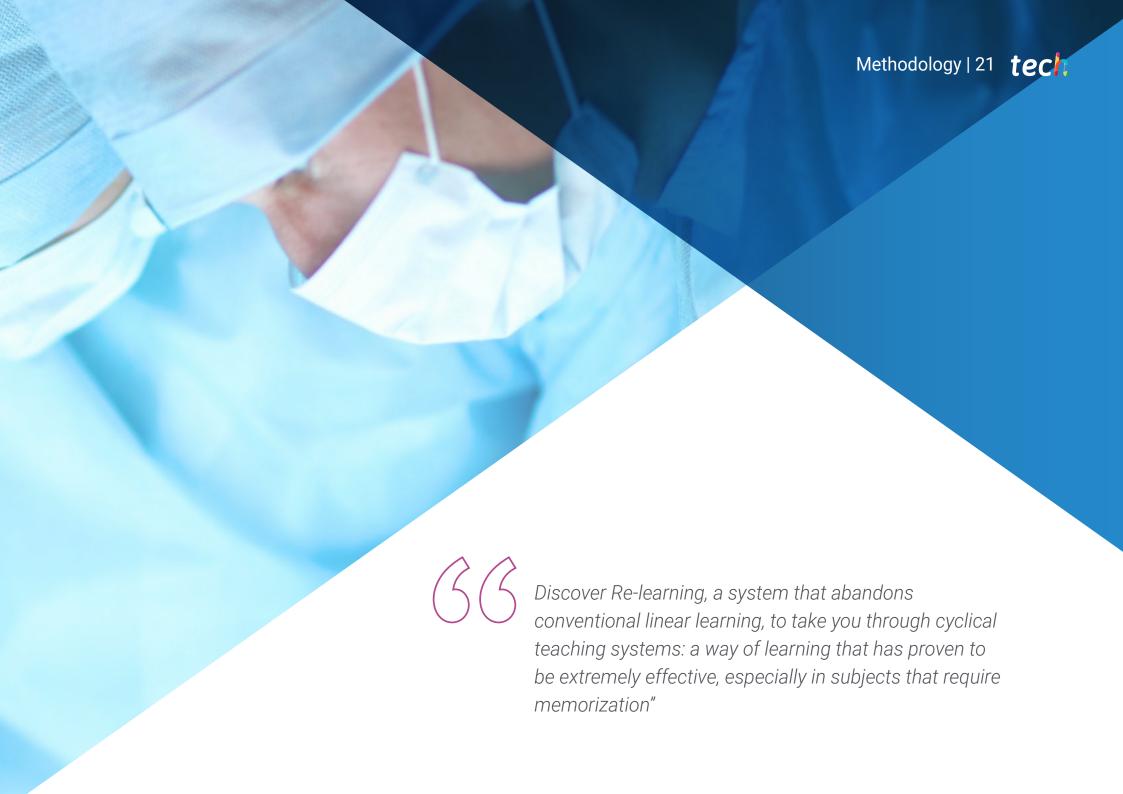


Structure and Content | 19 tech

- 1.8. Light, Its Importance and Basic Concepts Needed for Low Vision
 - 1.8.1. Notions of Light Spectrum
 - 1.8.2. Basic Concepts
 - 1.8.3. Adaptation to Light and Darkness in Low Vision
 - 1.8.4. Glare, a Fundamental Factor in Low Vision and Geriatrics
 - 1.8.5. Variable of Objects Influencing Vision
 - 1.8.6. Selective Filters: Not Everything Goes
- 1.9. Training in Low Vision Patient Support, Accompaniment and Follow Up
 - 1.9.1. Optimal Choice in Patient Aids
 - 1.9.2. Clear and Documented Information about Prescribed Aids
 - 1.9.3. Guidelines for Training Aids
 - 1.9.4. Specific Training in Distance, Medium and Near Vision
 - 1.9.5. Expectations and Perceptions
 - 1.9.6. Multidisciplinary Follow-up and Intervention, Training
 - 1.9.7. Concepts of TR and Patient Orientation
- 1.10. Geriatric Optometry Aging and Vision Problems
 - 1.10.1. Pillars of Geriatrics
 - 1.10.2. Aging and Visual Impairment
 - 1.10.3. Significant Physical Changes
 - 1.10.4. Personal Autonomy Assessment
 - 1.10.5. Most Relevant Neuropsychological Characteristics
 - 1.10.6. Optometric Examination in Geriatric Patients
 - 1.10.7. Appropriate Corrections in Geriatric Patients
 - 1.10.8. Welfare Support







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At TECH we use the Case Method

In a given situation, what would you do? Throughout the program, you will be presented with multiple simulated clinical cases based on real patients, where you will have to investigate, establish hypotheses and, finally, 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 can 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 potential 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 professional medical 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:

- Students who follow this method not only grasp concepts, but also develop their mental capacity by evaluating real situations and applying their knowledge.
- 2. The learning process has a clear focus on 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.
- 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.





Re-learning Methodology

At TECH we enhance the Harvard case method with the best 100% online teaching methodology available: Re-learning.

Our 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, which represent a real revolution with respect to simply studying and analyzing cases.

The physician will learn through real cases and by solving complex situations in simulated learning environments. These simulations are developed using state-of-theart software to facilitate immersive learning.



Methodology | 25 tech

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

With this methodology we have trained more than 250,000 physicians with unprecedented success, in all clinical specialties regardless of the surgical load. All this in a highly demanding environment, where the students have a strong socio-economic profile and an average age of 43.5 years.

Re-learning 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 (we learn, unlearn, forget, and re-learn). Therefore, we combine each of these elements concentrically.

The overall score obtained by our learning system is 8.01, according to the highest international standards.

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In this program you will have access to the best educational material, prepared with you 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 really specific and precise.

This content is then adapted in an audiovisual format that will create our way of working online, with the latest techniques that allow us to offer you high quality in all of the material that we provide you with.



Latest Techniques and Procedures on Video

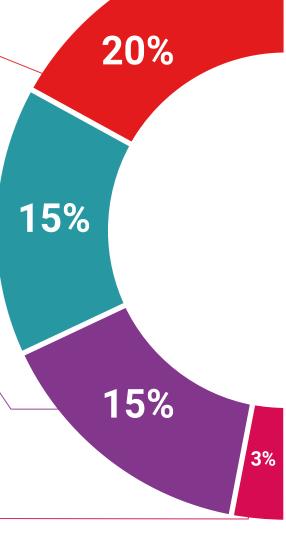
We introduce you to the latest techniques, to the latest educational advances, to the forefront of current medical techniques. All this, in first person, with the maximum rigor, explained and detailed for your assimilation and understanding. And best of all, you can watch them as many times as you want.



Interactive Summaries

We present the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

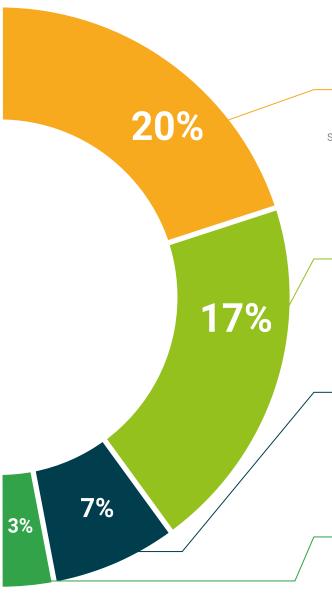
This unique multimedia content presentation training system was awarded by Microsoft as a "European Success Story".





Additional Reading

Recent articles, consensus documents, international guides. in our virtual library you will have access to everything you need to complete your training.



Expert-Led Case Studies and Case Analysis

Effective learning ought to be contextual. Therefore, we will present you with real case developments in which the expert will guide you through 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 your knowledge throughout the program, through assessment and self-assessment activities and exercises: so that you can see how you are achieving your goals.



Classes

There is scientific evidence suggesting that observing third-party experts can be useful.





Quick Action Guides

We offer you the most relevant contents of the course in the form of worksheets or quick action guides. A synthetic, practical, and effective way to help you progress in your learning.







tech 30 | Certificate

This **Postgraduate Certificate in Low Vision and Geriatric Optometry** is the most complete and up-to-date scientific program on the market.

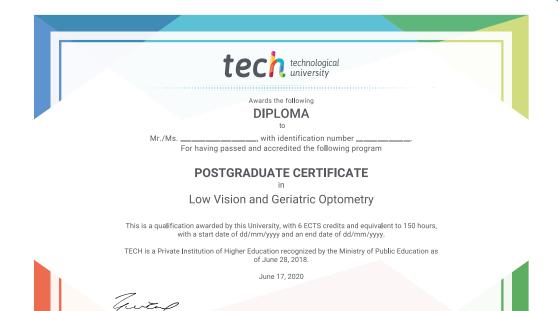
After the student has passed the assessments, they will receive their corresponding **Postgraduate Certificate** issued by **TECH - Technological University** via tracked delivery.

The certificate 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 Low Vision and Geriatric Optometry

ECTS: 6

Official Number of Hours: 150



^{*}Apostille Convention. In the event that the student wishes to have their paper diploma Apostilled, TECH EDUCATION will make the necessary arrangements to obtain it at an additional cost of €140 plus shipping costs of the Apostilled diploma.

technological university

Postgraduate Certificate Low Vision and

Geriatric Optometry

Course Modality: Online Duration: 6 weeks

Certificate: TECH - Technological University

6 ECTS Credits Teaching Hours: 150

