

Postgraduate Certificate

Visual Dysfunctions and Pathologies





Postgraduate Certificate

Visual Dysfunctions and Pathologies

- » Modality: online
- » Duration: 8 weeks
- » Certificate: TECH Global University
- » Accreditation: 12 ECTS
- » Schedule: at your own pace
- » Exams: online

Website: www.techtute.com/us/education/postgraduate-certificate/visual-dysfunctions-pathologies

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01

Introduction

Visual abilities are assumed in the academic environment, so sometimes there is not enough knowledge to detect problems associated with a visual impairment or disability, which requires qualified and prepared personnel.





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This Postgraduate Certificate in Visual Dysfunctions and Pathologies training will generate a sense of security in the performance of the profession, which will help you grow personally and professionally”

In response to the demand for professionals prepared to detect and intervene in the field of problems associated with vision, this program focused on education has been developed.

Special emphasis is placed on classroom learning, but above all, on the development of reading and writing skills, in order to learn how to detect visual problems, their consequences and the most appropriate way to intervene in each case.

An essential feature of this program is the description of both the symptomatology and the problems associated with visual impairment in the classroom, which enables a comprehensive approach to any adversity related to the visual system in school performance.

A unique opportunity to contemplate the wide range of education with respect to visual system problems, covering the various interventions addressed with sufficient clarity to be applied in professional practice.

This program offers a broad and complete vision of the complex world of the visual system and its implications in the different areas of life, including the academic, gathering the different theoretical and practical approaches, so that any interested professional knows first, what is the visual system, how it develops, what deficiencies it can present, how to detect them, and what interventions to carry out, all with the objective of being applicable to the workplace.

This is an improvement over programs that focus on physiological bases and physical and functional problems; or exclusively psycho-pedagogical programs, where the implications of visual impairment in the educational system are studied in depth.

This broad overview provides a better understanding of how the visual system works, its problems and best practices for intervention, so that professionals can have different application options in their workplaces according to their interests.

This **Postgraduate Certificate in Visual Dysfunctions and Pathology** contains the most complete and up-to-date educational program on the market. The most important features include:

- ♦ Development of case studies presented by experts in dysfunctions and visual pathologies. 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
- ♦ Latest developments in visual dysfunctions and pathologies
- ♦ It contains practical exercises where the self-assessment process can be carried out to improve learning
- ♦ With special emphasis on innovative methodologies in Visual Dysfunctions and Pathologies, all this will be complemented with theoretical lessons, questions to the expert, discussion forums on controversial issues and individual reflection work
- ♦ Content that is accessible from any fixed or portable device with an Internet connection



Update your knowledge through the Postgraduate Certificate program in Visual Dysfunctions and Pathologies”

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This Postgraduate Certificate may be the best investment you can make in the selection of an updating program for two reasons: besides updating your knowledge in Dysfunctions and Visual Pathologies, you will obtain a Postgraduate Certificate from TECH Technological University”

Its teaching staff includes professionals belonging to the field of teaching and pedagogy, who bring to this program the experience of their work, in addition to recognized specialists belonging to prestigious reference societies and universities.

Thanks to its multimedia content developed with the latest educational technology, they will allow the professional a situated and contextual learning, that is to say, a simulated environment that will provide an immersive learning programmed to prepare for real situations.

Problem-Based Learning underpins this program design, and the educator must use it to try and solve the different professional practice situations that arise throughout the Postgraduate Certificate. For this purpose, the specialist will be assisted by an innovative interactive video system created by renowned experts in the field of visual dysfunctions and pathologies 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 Visual Dysfunctions and Pathologies and improve your students' programs.



02

Objectives

The Postgraduate Certificate in Visual Dysfunctions and Pathologies is oriented to facilitate the performance of the professional dedicated to work with students with visual dysfunctions.



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This Postgraduate Certificate is oriented so that you can update your knowledge in Dysfunctions and visual pathologies, with the use of the latest educational technology, to contribute with quality and security to the decision making and monitoring of your students”



General Objective

- ♦ Analyze ocular pathology and visual dysfunctions from the point of view of the teacher and their impact on the student's academic performance



Take the opportunity and take the step to get up to date on the latest developments in Visual Dysfunctions and Pathologies”





Specific Objectives

- ♦ Discover non-paralytic Strabismus
- ♦ Learn about refractive strabismus
- ♦ Introduce monocular amblyopia
- ♦ Distinguish bilateral amblyopia
- ♦ Understand accommodation
- ♦ Distinguish between insufficient and excessive accommodation
- ♦ Know the flexibility of accommodation
- ♦ Understand vergence
- ♦ Distinguish between insufficient and excessive convergence
- ♦ Distinguish between insufficient and excessive divergence
- ♦ Understand the Oculomotor Dysfunctions
- ♦ Identify myopia
- ♦ Establish the characteristics of farsightedness
- ♦ Discover paralytic strabismus
- ♦ Understand congenital nystagmus
- ♦ Learn about childhood nystagmus
- ♦ Understand the macular hole
- ♦ Find out about age-related macular degeneration
- ♦ Learn about conjunctivitis
- ♦ Introduce corneal dystrophy
- ♦ Distinguish panuveitis
- ♦ Understand anterior uveitis
- ♦ Learn about neovascular glaucoma
- ♦ Identify congenital glaucoma
- ♦ Understand color blindness
- ♦ Establish the characteristics of achromatopsia
- ♦ Learn about retinopathy of prematurity
- ♦ Introduce diabetic retinopathy

03

Course Management

The program includes in its teaching staff reference experts in Visual Dysfunctions and Pathologies, who pour into this education the experience of their work. In addition, other experts of recognized prestige participate in its design and elaboration, completing the program in an interdisciplinary way.





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Learn from leading professionals, the latest advances in procedures in the field of dysfunctions and Visual Pathologies, you"

Management



Mr. Ignacio Vallejo Salinas

- ◆ Diploma in Optics and Optometry
- ◆ Master's Degree in Clinical Optometry
- ◆ Master's Degree Science in Clinical Optometry
- ◆ Director of the Mejor Visión Center of Madrid

Professors

Mr. Fuentes Najas, José Antonio

- ◆ Diploma in Optics and Optometry
- ◆ Master's Degree in Clinical Optometry
- ◆ Low Vision Specialist
- ◆ Professor of Low Vision
- ◆ Professor of Optometry and Low Vision
- ◆ University of Seville
- ◆ Director of the Fuentes Najas Optometry Center in Seville

Mr. Moisés De la Serna, Juan

- ◆ Doctor in Psychology
- ◆ Master's Degree in Neurosciences and Behavioral Biology
- ◆ Director of the Open Forum in Psychology and Neurosciences and science communicator



Mr. Vallejo Bermejo, Miguel

- ♦ Degree in Optics and Optometry
- ♦ Advanced Technician in Prosthetic Audiology
- ♦ Master's Degree in Visual Rehabilitation and Postgraduate Diploma in Pediatric Optometry and Visual Therapy
- ♦ Lecturer for the Degree in Optics
- ♦ Lecturer for the Advanced Degree in Prosthetic Audiology at ISEP, for the Degree in Values and Leadership Training at CEU ILEAD and for the different modules at the Center for Creative Leadership

Ms. Vallejo Sicilia, Lara

- ♦ Degree in Psychology
- ♦ Master's Degree in Clinical and Health Psychology
- ♦ Visual Therapist

04

Structure and Content

The structure of the contents has been designed by a team of professionals from the best educational institutions and universities in the country, who are aware of the relevance of up-to-date, innovative education and are committed to quality teaching using new educational technologies.





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This Postgraduate Certificate in Visual Dysfunctions and Pathology contains the most complete and updated scientific program on the market”

Module 1. Visual Dysfunctions

- 1.1. Extraocular Muscles
 - 1.1.1. Straight Muscles
 - 1.1.2. Oblique Muscles
- 1.2. Eye Movements I
 - 1.2.1. Ductions
 - 1.2.2. Versions
- 1.3. Eye Movements II
 - 1.3.1. Convergence
 - 1.3.2. Divergence
- 1.4. Associated with Parallelism
 - 1.4.1. Non-paralytic Strabismus
 - 1.4.2. Refractive Strabismus
- 1.5. Intraocular Muscles
 - 1.5.1. Ciliary Muscles
 - 1.5.2. Lens
- 1.6. Muscles Associated to Vision Loss in One Eye
 - 1.6.1. Monocular Amblyopia
 - 1.6.2. Bilateral Amblyopia
- 1.7. Associated to Accommodation
 - 1.7.1. Insufficient - Excessive Accommodation
 - 1.7.2. Accommodation Inflexibility
- 1.8. Associated to Vergences
 - 1.8.1. Insufficient - Excessive Convergence or Divergence
 - 1.8.2. Convergence/Divergence Inflexibility
- 1.9. Associated to Oculomotor Dysfunctions
 - 1.9.1. Fixation
 - 1.9.2. Monitoring
 - 1.9.3. Saccadic
- 1.10. Associated to Refractive Defects
 - 1.10.1. Myopia
 - 1.10.2. Hyperopia



Module 2. Ocular pathology

- 2.1. Associated with Parallelism
 - 2.1.1. Paralytic Strabismus
- 2.2. Associated to Eye Movement
 - 2.2.1. Congenital Nistagmus
 - 2.2.2. Nistagmus in Childhood
- 2.3. Associated to Macula
 - 2.3.1. Myopic Macular Hole
 - 2.3.2. Muscular Degeneration Related to Aging
- 2.4. Associated to Cornea and Conjunctiva
 - 2.4.1. Conjunctivitis
 - 2.4.2. Corneal Dystrophies
- 2.5. Associated to Glaucoma
 - 2.5.1. Neovascular Glaucoma
 - 2.5.2. Congenital Glaucoma
- 2.6. Associated to Color
 - 2.6.1. Colorblindness
 - 2.6.2. Achromatopsia



A unique, crucial and decisive learning experience to boost your professional development"

05

Methodology

This training program offers 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 Education School we use the Case Method

In a given situation, what should a professional do? Throughout the program students will be presented with multiple simulated cases based on real situations, where they will have to investigate, establish hypotheses and, finally, resolve the situation. There is an abundance of scientific evidence on the effectiveness of the method.

With TECH, educators can experience a learning methodology that is shaking the foundations of traditional universities around the world.



It is a technique that develops critical skills and prepares educators to make decisions, defend their arguments, and contrast opinions.

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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. Educators 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 is solidly focused on practical skills that allow educators to better integrate the knowledge into daily practice.
3. Ideas and concepts are understood more efficiently, given that the example situations are based on real-life teaching.
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.

Our University is the first in the world to combine case studies 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.



Educators will learn through real cases and by solving 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 we have trained more than 85,000 educators with unprecedented success in all specialties. All this in a highly demanding environment, where the students have a strong socio-economic profile and an average age of 43.5 years.

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 our 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 specialist educators who teach the course, specifically for the course, so that the teaching content is really 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.



Educational Techniques and Procedures on Video

TECH introduces students to the latest techniques, with the latest educational advances, and to the forefront of Education. All this, first-hand, 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

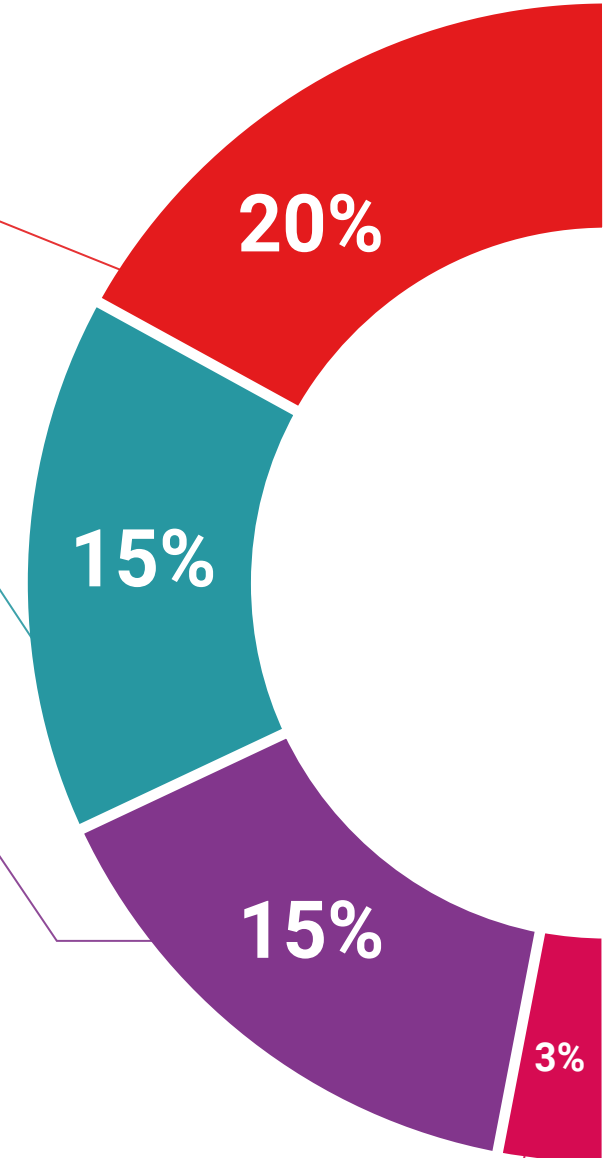
The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

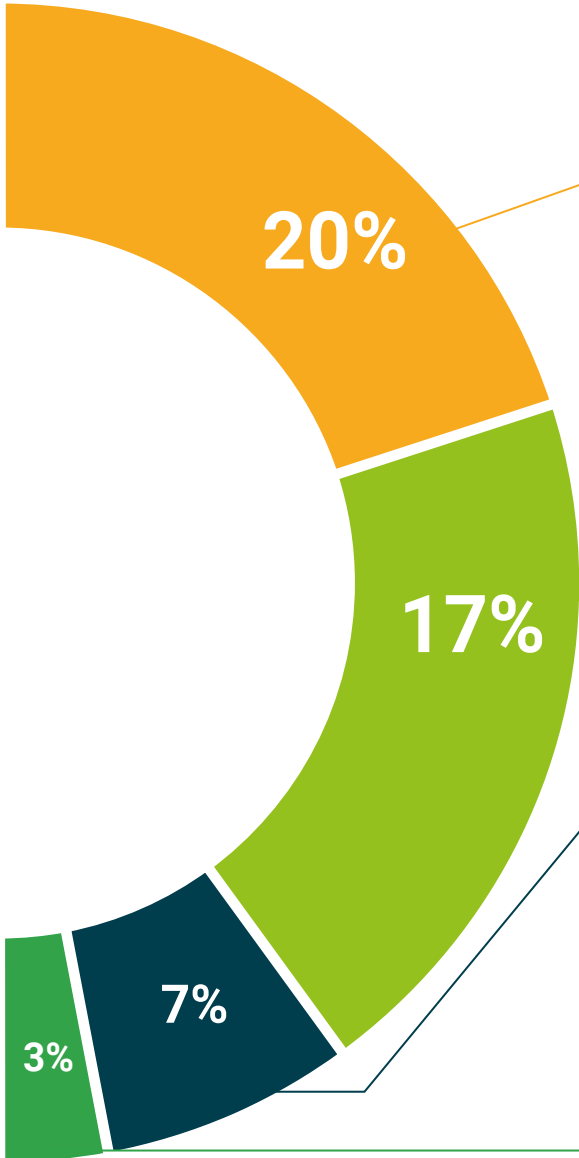
This exclusive multimedia content presentation training Exclusive system was awarded by Microsoft as a "European Success Story".



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 your goals.



Classes

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

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 Visual Dysfunctions and Pathology guarantees, in addition to the most accurate and up-to-date education, access to a Postgraduate Certificate 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 private qualification will allow you to obtain a **Postgraduate Certificate in Visual Dysfunctions and Pathologies** 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.

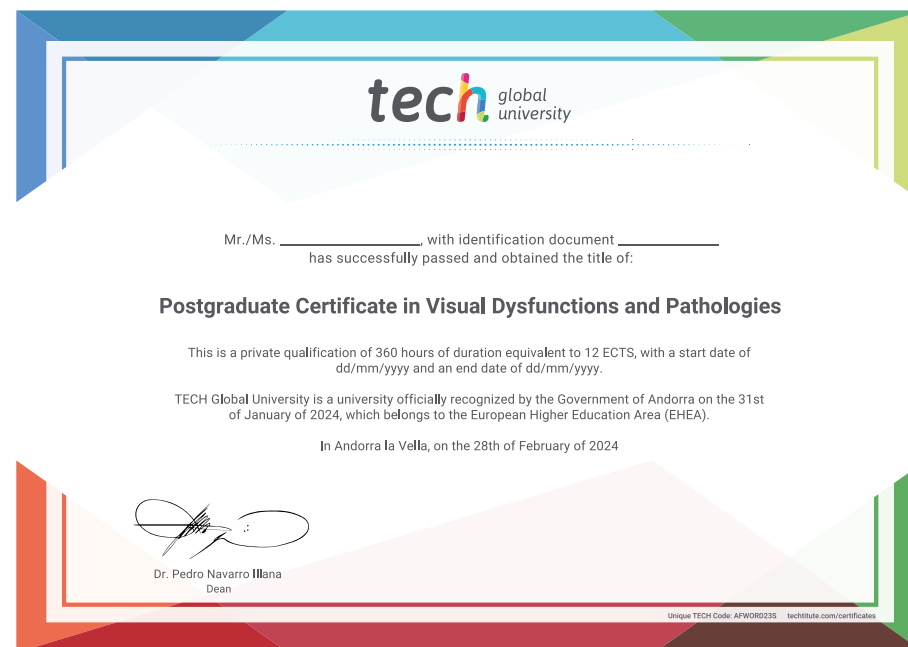
This **TECH Global University** private qualification is a European program of continuing education and professional updating that guarantees the acquisition of competencies in its area of knowledge, providing a high curricular value to the student who completes the program.

Title: **Postgraduate Certificate in Visual Dysfunctions and Pathologies**

Modality: **online**

Duration: **6 weeks**

Accreditation: **12 ECTS**



future
health confidence people
education information tutors
guarantee accreditation teaching
institutions technology learning
community commitment



Postgraduate Certificate

Visual Dysfunctions and Pathologies

- » Modality: online
- » Duration: 8 weeks
- » Certificate: TECH Global University
- » Accreditation: 12 ECTS
- » Schedule: at your own pace
- » Exams: online

Postgraduate Certificate

Visual Dysfunctions and Pathologies