

# Postgraduate Diploma

## Advanced Pediatric Ophthalmology





## Postgraduate Diploma Advanced Pediatric Ophthalmology

- » Modality: online
- » Duration: 6 months
- » Certificate: TECH Global University
- » Credits: 18 ECTS
- » Schedule: at your own pace
- » Exams: online

Website: [www.techtute.com/us/medicine/postgraduate-certificate/postgraduate-diploma-advanced-pediatric-ophthalmology](http://www.techtute.com/us/medicine/postgraduate-certificate/postgraduate-diploma-advanced-pediatric-ophthalmology)

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# 01

# Introduction

During childhood, it is essential to take care of vision, since severe eye problems appear and develop at an early age. Therefore, children must be in constant diagnosis and undergo their respective treatments, ensuring optimal vision throughout their growth. Thanks to the importance of this discipline in the field of medicine, this TECH program is born, providing the professional with first level material. In this way, the physician will strengthen their knowledge in ocular development, ophthalmologic conditions related to the nervous system and the relationships between ocular pathologies and systemic diseases. All this including innovative multimedia resources and the revolutionary Relearning. methodology.



“

*Enroll in this program now! You will have access to a quality program endorsed by the best online university in the world, according to Forbes”*

An important part of academic failures in infants is due to visual problems that have not been diagnosed or treated correctly. This is a key stage in learning, when they most need to develop their physical and cognitive abilities, so good eye health is essential. In this sense, check-ups and therapies should be carried out periodically, in order to correct the pathologies that damage children's vision.

In this context, TECH offers physicians the latest studies and innovations in the field of Pediatric Ophthalmology. This Postgraduate Diploma will develop a comprehensive approach to the evolution of vision, from the embryonic period to childhood. In addition, the specialist will master ocular electrophysiology and other important diagnostic tests in the pediatric context.

Likewise, the graduate will broaden their skills in ophthalmologic conditions related to the nervous system, including diagnosis and treatment in children. Pathologies such as nystagmus, supranuclear and internuclear ocular motility disorders, hereditary optic neuropathies, optic atrophy, optic neuritis and pseudopapilledema will be studied in depth.

Likewise, the student will address the interaction between ocular conditions and systemic diseases in pediatric patients. They will be immersed in the investigation of phakomatosis and neurofibromatosis, as well as intrauterine disorders and perinatal infections and other systemic pathologies, such as albinism and Marfan Syndrome. Finally, space will be devoted to pediatric ocular trauma and battered child syndrome.

This is a program that combines a revolutionary methodology, *Relearning*, with multimedia content of the highest quality. TECH offers dynamism and convenience in its 100% online modality, making it a very flexible qualification, with no time restrictions. All you need is an electronic device with an Internet connection to easily access the virtual platform.

This **Postgraduate Diploma in Advanced Pediatric Ophthalmology** contains the most complete and up-to-date scientific program on the market. The most important features include:

- ♦ Practical case studies presented by experts in Advanced Pediatric Ophthalmology
- ♦ The graphic, schematic and practical contents with which it is conceived scientific and practical information on those disciplines that are essential for professional practice
- ♦ Practical exercises where self-assessment can be used to improve learning
- ♦ Its special emphasis on innovative 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



*You will analyze the basics of vision development in children, from the embryonic stage to infancy, through the 450 hours of this qualification”*

“

*You will deepen in Visual Screening, a method of early detection of ocular disorders in children, all thanks to the most innovative multimedia resources”*

The program’s teaching staff includes professionals from the field who contribute their work experience to this educational 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 education programmed to learn 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. For this purpose, the students will be assisted by an innovative interactive video system created by renowned and experienced experts.

*You will cover the most current techniques in diagnosis and treatment of Leber's Hereditary Optic Neuropathy (LHON), a genetic disease that causes bilateral blindness.*

*Bet on TECH! You will investigate intrauterine disorders in fetal eye development, the origin of many congenital problems in childhood.*



# 02 Objectives

The program will equip the graduate with the skills necessary to become an expert in pediatric ophthalmic care. From the uniqueness of the developing eye to the complexities of diagnosing and treating ophthalmologic conditions in children, the student will benefit from a balanced combination of practical and theoretical learning, with the addition of the most innovative multimedia content and the analysis of real clinical cases. In this way, the specialist will not only have acquired advanced knowledge in Advanced Pediatric Ophthalmology, but will also have made a commitment to create a lasting impact on the visual health of the next generation.







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*This Postgraduate Diploma is not only an academic program, but an opportunity to improve the visual health of future generations”*



## General Objectives

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- ♦ Acquire a thorough and up-to-date knowledge of the diagnosis and treatment of ophthalmologic conditions in children, including neonates and infants
- ♦ Develop a solid understanding of the basics of childhood vision development, covering ocular embryology, related genetics, and the anatomy and physiology of the growing visual system
- ♦ Understand and address ocular anterior segment pathologies, including palpebral, orbital, conjunctival pathology, developmental alterations of the anterior segment, and corneal and ectatic diseases in the pediatric age group
- ♦ Delve into the field of pediatric neuro-ophthalmology, covering topics such as nystagmus, supranuclear motility disorders, congenital optic nerve anomalies and hereditary optic neuropathies



*This qualification is intended to enable the specialist to achieve his or her goal of creating a lasting impact, contributing to the visual health of an entire generation”*





## Specific Objectives

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### Module 1. Basis of Vision Development

- ♦ Identify the genetic basis of pediatric ocular diseases and their clinical relevance
- ♦ Study the anatomy and function of sensory structures in the pediatric eye
- ♦ Analyze the importance of the development of binocular vision in infancy and its clinical consequences
- ♦ Identify visual disturbances in children and their implication in the diagnosis
- ♦ Interpret test results for the diagnosis of visual disorders in children
- ♦ Become familiar with ophthalmic medications used in pediatric treatment and their safe administration

### Module 2. Pediatric Neuro-Ophthalmology

- ♦ Deepen the knowledge of the mechanisms and causes of infantile nystagmus
- ♦ Study supranuclear and internuclear ocular motility disorders in childhood
- ♦ Identify congenital anomalies of the optic nerve in children and their association with visual problems
- ♦ Recognize hereditary optic neuropathies in childhood and their features
- ♦ Understand optic atrophy in children and its causes
- ♦ Identify cases of optic neuritis in children and its relation to systemic diseases
- ♦ Differentiate between pseudopapilledema and papillary edema in the pediatric population
- ♦ Identify papillary edema and its relation to intracranial hypertension in children

### Module 3. Ophthalmic Manifestations of Systemic Pathology

- ♦ Identify phacomatosis with ophthalmic and systemic manifestations
- ♦ Recognize neurofibromatosis and its ophthalmologic implications
- ♦ Evaluate ophthalmologic manifestations of CNS tumors in children
- ♦ Identify ocular manifestations of leukemia and neuroblastoma in children
- ♦ Integrate the ophthalmologic approach in the multidisciplinary management of these disorders
- ♦ Understand mitochondrial pathology and its impact on visual function
- ♦ Identify neurometabolic disorders with ophthalmologic manifestations
- ♦ Assess the ophthalmologic consequences of intrauterine disorders and perinatal infections
- ♦ Recognize systemic pathologies, such as albinism and Marfan syndrome, with ophthalmologic manifestations
- ♦ Identify signs of child abuse and their relationship to eye injuries

# 03

## Course Management

This unique Postgraduate Diploma in Advanced Pediatric Ophthalmology has recruited a distinguished faculty that not only possesses exceptional clinical expertise, but is also deeply committed to the excellence of the professionals who will transform children's eye health. In fact, these experts are ophthalmologists who have dedicated years to the diagnosis and treatment of complex pediatric ophthalmic conditions. In addition, they are pioneers in research, having participated in the most cutting-edge projects in this field. Therefore, the student will have the unique opportunity to learn from the experiences of the best specialists.



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*The exceptional group of experts that make up the faculty will guide you on the path to excellence in Advanced Pediatric Ophthalmology”*

## Management



### Dr. Sánchez Monroy, Jorge

- ♦ Corresponsable for Pediatric Ophthalmology at Quirónsalud Hospital in Zaragoza
- ♦ Specialist in the Ophthalmology Miguel Servet University Hospital in Zaragoza
- ♦ Master'in in Clinical Ophthalmology from UCJC
- ♦ Degree in Medicine from the University of Zaragoza
- ♦ Expert in Pediatric Neurophthalmology and Strabismus
- ♦ Postgraduate Diploma in Ophthalmology and Vision Sciences

## Professors

### Dr. Romero Sanz, María

- ♦ Corresponsable for Children's Ophthalmology at Hospital Quirónsalud Zaragoza
- ♦ Specialist in the Ophthalmology Miguel Servet University Hospital in Zaragoza
- ♦ Master' in in Clinical Ophthalmology at CEU Cardenal Herrera University
- ♦ Master's Degree in Clinical Medicine at the Camilo José Cela University
- ♦ Grade in Medicine and Surgery from the Faculty of Medicine of the Zaragoza University
- ♦ Expert in Ophthalmic Surgery at the University CEU Cardenal Herrera
- ♦ Expert in Pathologies and Eye Treatment CEU Cardenal Herrera University
- ♦ Expert in Uveitis and the Retina CEU Cardenal Herrera University

### Dr. Prieto Calvo, Esther

- ♦ Specialist in the Pediatric Ophthalmology Miguel Servet University Hospital in Zaragoza
- ♦ Researcher in the Teaching Innovation Incentive Project of the UZ
- ♦ Researcher of the Thematic Network of Cooperative Research in Health
- ♦ Specialist in Ophthalmology
- ♦ Doctor from the University of Zaragoza
- ♦ Degree in Medicine
- ♦ Member of the Spanish Society of Pediatric Ophthalmology

**Dr. Sanz Pozo, Claudia**

- ♦ Specialist in the Ophthalmology Miguel Servet University Hospital in Zaragoza
- ♦ Ophthalmology Attachments at Quirónsalud Hospital in Zaragoza
- ♦ Specialist in Ophthalmology at the at Quirónsalud Hospital in Zaragoza
- ♦ Master's Degree in Clinical Ophthalmology at Cardenal Herrera University
- ♦ Degree in Medicine and Surgery from the Faculty of Medicine of the Zaragoza University
- ♦ Expert in Retina and the Uveitis Cardenal Herrera University
- ♦ Expert in Ophthalmologic Surgery at Universidad Cardenal Herrera
- ♦ Expert in Glaucoma and Pediatric Ocular Pathology at Cardenal Herrera University
- ♦ Expert in Ocular Diseases and Treatment Cardenal Herrera University

**Dr. Narváez Palazón, Carlos**

- ♦ Attending Physician in Pediatric Ophthalmology
- ♦ Specialist in Ophthalmology in San Carlos Clinical Hospital
- ♦ Doctor in Ophthalmology
- ♦ Master's Degree in Integration and Clinical Cases Solving from the University of Alcalá, Spain
- ♦ Master's Degree in Clinical Management, Medical and Healthcare Management from the CEU San Pablo University

**Dr. Pueyo Royo, Victoria**

- ♦ Specialist in the Pediatric Ophthalmology Miguel Servet University Hospital in Zaragoza
- ♦ Member of the Maternal, Child and Developmental Health Network
- ♦ Professor, Grade of Optics and Optometry, University of Zaragoza Grade in Pediatric Ophthalmology

**Dr. Noval Martin, Susana**

- ♦ Head of the Pediatric Ophthalmology Department at Hospital La Paz
- ♦ Doctorate Award of the Lopez Sanchez Foundation of the Royal Academy of Medicine
- ♦ PhD in Medicine from the University of Alcalá de Henares
- ♦ Master's Degree in Neuro-immunology from Autonomous University Madrid
- ♦ Degree in Medicine from the Autonomous University Madrid

**Dr. González, Inmaculada**

- ♦ Specialist in the Pediatric Ophthalmology Miguel Servet University Hospital in Zaragoza
- ♦ Area Specialist in Psychiatry
- ♦ Member of the Spanish Society of Ophthalmology
- ♦ Member of the Spanish Society of Strabology
- ♦ Professor for the Ophthalmology Degree in Orthodontics, CEU Cardenal Herrera University
- ♦ Bachelor in Medicine and Surgery from the University of Zaragoza

**Dr. Pinilla, Juan**

- ♦ Attending Physician of Pediatric Ophthalmology Unit, Miguel Servet University Hospital
- ♦ Specialist in the Pediatric Ophthalmology Miguel Servet University Hospital in Zaragoza
- ♦ Doctorate in Medicine and Surgery, University of Zaragoza
- ♦ Professional Master's in Initiation to Research in Medicine
- ♦ Degree in Medicine from the University of Zaragoza

# 04

## Structure and Content

This innovative program in Advanced Pediatric Ophthalmology is designed to equip the physician with the most advanced knowledge and specialized skills necessary to become a leader in the field of pediatric ophthalmology. The program focuses not only on technical concepts, but also on the development of leadership and communication skills. In this way, the specialist will address children's eye health comprehensively, effective communication with families and leadership of interdisciplinary teams, ensuring that they are prepared to assume leading roles in promoting healthy vision.





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*You will tailor various treatment strategies to the unique needs of children, ensuring a compassionate and effective approach”*

## Module 1. Basis of Vision Development

- 1.1. Ocular embryology and genetics
  - 1.1.1. Embryonic Period
  - 1.1.2. Development of the optic nerve, retina, vitreous, retinal and choroidal vasculature
  - 1.1.3. Development of the lens and anterior pole
  - 1.1.4. Eyelid and Lacrimal System Development
  - 1.1.5. Development of the orbit and extraocular musculature
- 1.2. The growing visual system
  - 1.2.1. Development of functional parameters
  - 1.2.2. Anatomy Development of the Eye
  - 1.2.3. Conclusions
- 1.3. Anatomy and Physiology of sensory perception
  - 1.3.1. Anatomy and Physiology of Retina
  - 1.3.2. Classical visual pathway and extrageniculate pathways
  - 1.3.3. The Visual Cortex Maturation. of Cortex in the Childhood
- 1.4. Binocularity and associated processes
  - 1.4.1. Monocular aspects of sensory perception
  - 1.4.2. Binocular aspects of sensory perception
  - 1.4.3. Sensory adaptations to abnormal visual stimuli
  - 1.4.5. Anatomophysiological basis of amblyopia
- 1.5. Anatomy and Physiology of Ocular Motility:
  - 1.5.1. Extraocular Muscles
  - 1.5.2. Cranial Nerves
  - 1.5.3. Ductions and versions. Sherrington and Hering's Laws
  - 1.5.4. Fixation movements, saccadic and slow tracking movements
  - 1.5.5. Vergences and ocular reflexes
  - 1.5.6. Ocular Motility:
- 1.6. Exploration of the sensory area
  - 1.6.1. Visual acuity
  - 1.6.2. Fusion
  - 1.6.3. Stereopsis
  - 1.6.4. Study of the visual field in the pediatric age
- 1.7. Exploration of the motor area and ocular deviation
  - 1.7.1. Translations and versions
  - 1.7.2. Convergence
  - 1.7.3. Fusional vergences
  - 1.7.4. Hirschberg and Krimsky
  - 1.7.5. Cover test and its variants, biprism and prismatic adaptation test
  - 1.7.6. Compatibility Study
  - 1.7.7. Synoptophore, Hess and video-oculography screens
- 1.8. Ocular electrophysiology and other tests
  - 1.8.1. Basic Concepts of bioelectrical
  - 1.8.2. Diffuse flash electroretinogram waves
  - 1.8.3. Multifocal electroretinogram and pattern electroretinogram
  - 1.8.4. Visual Evoked Potentials
  - 1.8.5. Electrooculogram
  - 1.8.6. Electromyography of extraocular muscles
- 1.9. Pharmacology Ocular Pediatrics
  - 1.9.1. Special considerations of metabolism and pharmacology in infancy
  - 1.9.2. Ocular pharmacology in childhood: drug groups
  - 1.9.3. Others Routes of Administration
- 1.10. Childhood Visual Screening
  - 1.10.1. Importance and objectives of visual screening
  - 1.10.2. Methods and tools for visual screening in infancy
  - 1.10.3. Implementation and organization of a visual screening program
  - 1.10.4. Evaluation of the effectiveness of the visual screening program



## Module 2. Pediatric Neuro-Ophthalmology

- 2.1. Nystagmus
  - 2.1.1. Definition and classification of nystagmus
  - 2.1.2. Etiology and diagnosis of nystagmus
  - 2.1.3. Congenital nystagmus: characteristics and diagnosis
  - 2.1.4. Acquired nystagmus in childhood
- 2.2. Nystagmus II
  - 2.2.1. Therapeutic approach and management of nystagmus
  - 2.2.2. Nystagmus case studies and examples
  - 2.2.3. Advanced therapies and treatments in nystagmus
  - 2.2.4. Visual outcomes and prognosis in infantile nystagmus
- 2.3. Supranuclear and Internuclear Motility Disorders
  - 2.3.1. Supranuclear ocular motility disorders
  - 2.3.2. Internuclear ocular motility disorders
  - 2.3.3. Evaluation and diagnosis in supranuclear and internuclear disorders
  - 2.3.4. Management and treatment of ocular motility disorders
- 2.4. Congenital Optic Nerve Anomalies
  - 2.4.1. Structural abnormalities of the optic nerve
  - 2.4.2. Diagnosis and classification of congenital anomalies
  - 2.4.3. Visual implications and outcomes in patients with optic nerve anomalies
  - 2.4.4. Clinical cases and examples of congenital anomalies
- 2.5. Hereditary Optic Neuropathies
  - 2.5.1. Leber Hereditary Optic Neuropathy (LHON)
  - 2.5.2. Other hereditary optic neuropathies
  - 2.5.3. Genetic studies and diagnosis in optic neuropathies
  - 2.5.4. Therapies and treatments in hereditary optic neuropathies
- 2.6. Optic Atrophy in the Child
  - 2.6.1. Causes and risk factors in infantile optic atrophy
  - 2.6.2. Evaluation and diagnosis of optic atrophy in children
  - 2.6.3. Management and treatment of optic atrophy in infancy
  - 2.6.4. Visual outcomes and follow-up in pediatric optic atrophy

- 2.7. Pediatric Optic Neuritis
  - 2.7.1. Optic neuritis in children: etiology and characteristics
  - 2.7.2. Diagnosis and evaluation in pediatric optic neuritis
  - 2.7.3. Therapies and treatment in pediatric optic neuritis
  - 2.7.4. Prognosis and follow-up in optic neuritis
- 2.8. Pseudopapilledema. Optic nerve drusen
  - 2.8.1. Pseudopapilledema in infancy
  - 2.8.2. Optic nerve drusen: diagnosis and classification
  - 2.8.3. Management and follow-up in pseudopapilledema and drusen
  - 2.8.4. Clinical cases and examples of pseudopapilledema
- 2.9. Papillary edema, intracranial hypertension
  - 2.9.1. Papillary edema in children: causes and diagnosis
  - 2.9.2. Intracranial hypertension in infancy
  - 2.9.3. Treatment and management in papillary edema and intracranial hypertension
  - 2.9.4. Visual findings and follow-up in patients with these conditions
- 2.10. Pupillary Anomalies
  - 2.10.1. Pupillary abnormalities in infancy
  - 2.10.2. Diagnosis and evaluation of pupillary abnormalities
  - 2.10.3. Treatments and management of pupillary abnormalities
  - 2.10.4. Clinical cases and examples of pupillary anomalies

### Module 3. Ophthalmologic Manifestations of Childhood Systemic Pathology

- 3.1. Phakomatosis
  - 3.1.1. Phakomatosis: definition and classification
  - 3.1.2. Syndromes and disorders related to Phakomatosis
  - 3.1.3. Evaluation and diagnosis in children with Phakomatosis
  - 3.1.4. Treatments and therapeutic approach in Phakomatosis
- 3.2. Neurofibromatosis
  - 3.2.1. Neurofibromatosis type 1 (NF1): characteristics and diagnosis
  - 3.2.2. Neurofibromatosis type 2 (NF2): evaluation and management
  - 3.2.3. Other forms of neurofibromatosis
  - 3.2.4. Clinical cases and examples of neurofibromatosis in children

- 3.3. Pediatric tumor pathology I. SNC
  - 3.3.1. Brain tumors in children: types and classification
  - 3.3.2. Diagnosis and evaluation of tumors of the central nervous system (CNS)
  - 3.3.3. Treatments and surgery in pediatric brain tumors
  - 3.3.4. Follow-up and prognosis in pediatric CNS tumors
- 3.4. Pediatric tumor pathology 2: leukemia, neuroblastoma
  - 3.4.1. Leukemia in children: diagnosis and classification
  - 3.4.2. Neuroblastoma in childhood: etiology and characteristics
  - 3.4.3. Treatments and therapies in pediatric leukemia and neuroblastoma
  - 3.4.4. Outcomes and prognosis in pediatric leukemia and neuroblastoma
- 3.5. Mitochondrial pathology
  - 3.5.1. Mitochondrial disorders in childhood
  - 3.5.2. Diagnosis and evaluation of mitochondrial pathology
  - 3.5.3. Treatments and therapeutic approach in mitochondrial disorders
  - 3.5.4. Research and advances in mitochondrial pathology
- 3.6. Neurometabolic disorders
  - 3.6.1. Neurometabolic disorders in children: classification
  - 3.6.2. Evaluation and diagnosis of neurometabolic disorders
  - 3.6.3. Therapies and treatments in pediatric neurometabolic disorders
  - 3.6.4. Outcomes and follow-up in neurometabolic disorders
- 3.7. Intrauterine disorders and perinatal infection
  - 3.7.1. Intrauterine disorders of ocular development
  - 3.7.2. Perinatal infection and its impact on vision
  - 3.7.3. Diagnosis and management of intrauterine disorders and perinatal infection
  - 3.7.4. Complications and prognosis in cases of intrauterine disorders and perinatal infection
- 3.8. Other systemic pathologies: albinism, Marfan syndrome, etc
  - 3.8.1. Albinism in children: characteristics and diagnosis
  - 3.8.2. Marfan's syndrome and other systemic disorders
  - 3.8.3. Ophthalmologic evaluation and care in cases of systemic pathologies
  - 3.8.4. Multidisciplinary approach in patients with systemic pathologies



- 3.9. Pediatric ocular trauma
  - 3.9.1. Types and causes of ocular trauma in children
  - 3.9.2. Evaluation and diagnosis of pediatric ocular trauma
  - 3.9.3. Treatments and management of ocular trauma
  - 3.9.4. Outcomes and follow-up in pediatric ocular trauma cases
- 3.10. Battered child syndrome
  - 3.10.1. Identification and assessment of the battered child syndrome
  - 3.10.2. Intervention and support in child maltreatment cases
  - 3.10.3. Legal and ethical aspects of maltreated child syndrome
  - 3.10.4. Clinical cases and experiences in battered child syndrome

“ *Each module is designed, not only to convey knowledge, but to cultivate the excellence and leadership of the specialist in Advanced Pediatric Ophthalmology*”

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 Diploma in Advanced Pediatric Ophthalmology guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Diploma 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 Diploma in Advanced Pediatric Ophthalmology** 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 Diploma in Advanced Pediatric Ophthalmology**

Modality: **online**

Duration: **6 months**

Accreditation: **18 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.



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

**tech** global  
university

**Postgraduate Diploma**  
Advanced Pediatric  
Ophthalmology

- » Modality: online
- » Duration: 6 months
- » Certificate: TECH Global University
- » Credits: 18 ECTS
- » Schedule: at your own pace
- » Exams: online

# Postgraduate Diploma

## Advanced Pediatric Ophthalmology

