

# Postgraduate Diploma

## Pediatric Ophthalmology in Visual Development and Systemic Pathology



## Postgraduate Diploma Pediatric Ophthalmology in Visual Development and Systemic Pathology

- » Modality: online
- » Duration: 6 months
- » Certificate: TECH Technological University
- » Dedication: 16h/week
- » Schedule: at your own pace
- » Exams: online

Website: [www.techtute.com/us/medicine/postgraduate-diploma/postgraduate-diploma-pediatric-ophthalmology-visual-development-systemic-pathology](http://www.techtute.com/us/medicine/postgraduate-diploma/postgraduate-diploma-pediatric-ophthalmology-visual-development-systemic-pathology)

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# 01

# Introduction

During infancy, the visual system goes through several critical phases of development. In fact, from birth the infant's eyes undergo significant changes that affect visual acuity and depth perception. Early detection of any visual abnormalities is key to ensuring optimal growth, which is why regular ophthalmological examinations are essential. That is why specialists must master a variety of adapted tools and techniques, often using non-invasive and playful methods, to ensure the cooperation of the youngest patient. In this context, TECH offers a complete academic degree based on a revolutionary educational approach, Relearning, ensuring an understanding of the content through the repetition of fundamental concepts.

A medical scan, possibly an MRI or CT, showing a cross-section of a body part. A dark, circular area is visible in the center, surrounded by lighter, textured tissue. Two concentric green circles are drawn around a specific point in the lower right quadrant of the scan, highlighting a region of interest. The scan is displayed on a monitor, with some interface elements visible at the top and bottom.

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*Bet on TECH! You will perform comprehensive evaluations and provide high quality, specialized treatment in Systemic Pathology in children"*

Conditions such as diabetes, genetic diseases or metabolic disorders can manifest with symptoms in children's eyes, highlighting the importance of a comprehensive ophthalmologic evaluation. For this reason, the specialist should monitor pediatric visual conditions and recognize the close relationship between ocular health and systemic development, promoting optimal vision and healthy growth in childhood.

This Postgraduate Diploma will provide the physician with the tools and strategies to effectively manage real situations. Therefore, it will address from the evaluation and management of the child with vision problems, to the diagnosis and treatment of pathologies such as conjunctivitis, intermittent amblyopia, epiphora and acute strabismus. It will also focus on retinopathy of prematurity, papillary effacement, pediatric anisocoria and papillary pallor.

Likewise, he will delve into phacomatosis and neurofibromatosis, highlighting their ophthalmic manifestations, to then investigate pediatric tumor pathology, both in the central nervous system and in other types of tumors, such as leukemia and neuroblastoma. In addition, mitochondrial pathology and neurometabolic disorders will be discussed.

The specialist will also evaluate children with low vision, highlighting strategies to optimize their quality of life. And he will approach Cerebral Visual Impairment (CVI), visual maturational delay, prematurity syndrome and infantile cerebral palsy. Finally, it will delve into dyslexia, crossed laterality and other disorders that can affect the vision and development of the pediatric patient.

TECH will provide the graduate with a comprehensive and detailed program that can be taken conveniently from any location and at any time. In this way, the student will have the freedom to establish his own schedule, since he will only need an electronic device with Internet access. It will also have innovative multimedia resources and an avant-garde pedagogical methodology, Relearning, which implies the repetition of the most relevant aspects to guarantee effective learning.

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

- ♦ The development of case studies presented by experts in Pediatric Ophthalmology in Visual Development and Systemic Pathology
- ♦ The graphic, schematic and eminently practical contents of the book provide 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



*With this Postgraduate Diploma you will analyze the close relationship between children's eye health and systemic development"*

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*Update with TECH on eurometabolic vision disorders in children, which appear after genetic changes inherited from unaffected parents or a new gene abnormality"*

The program's teaching staff includes professionals from the sector who contribute their work experience to this training program, as well as renowned specialists from leading societies and prestigious universities.

The multimedia content, developed with the latest educational technology, will provide the professional with situated and contextual learning, i.e., a simulated environment that will provide immersive education programmed to learn in real situations.

This program's design focuses on Problem-Based Learning, through which the professional must try to solve the different professional practice situations that arise during the academic program. For this purpose, the students will be assisted by an innovative interactive video system created by renowned and experienced experts.

*You will delve into Cerebral Visual Impairment (CVI), also known as central visual disturbance, a disorder caused by damage to the areas of the brain that process vision.*

*You will address Juvenile Idiopathic Arthritis (JIA) and how it can affect the vision of younger patients, through the most innovative multimedia resources.*



# 02

# Objectives

The program will immerse the graduate in the world of Visual Development and the complexities of Systemic Pathology in children, providing a comprehensive understanding and practical skills that will make a difference. It is a cutting-edge, flexible and comfortable academic program. In this way, students can access the content from anywhere, according to their own schedule, benefiting from innovative resources and learning techniques that will enhance their understanding and retention of information, as is the case of the Relearning methodology, a pioneer in TECH.





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*You will acquire the skills to effectively assess and manage a variety of functional vision and associated disorders in pediatric patients”*



## 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
- ◆ Become familiar with the diagnosis and management of pediatric glaucoma, pediatric uveitis, aniridia and other conditions related to the anterior segment.
- ◆ Acquire specific knowledge of retinopathy of prematurity, retinoblastoma, hereditary retinal disorders, retinal vascular anomalies, pediatric retinal detachment, and other pediatric retinal conditions
- ◆ Delve into the field of pediatric neuro-ophthalmology, covering topics such as nystagmus, supranuclear motility disorders, congenital optic nerve anomalies and hereditary optic neuropathies





## Specific Objectives

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### Module 1. Practical Management of Special Situations in Pediatric Ophthalmology

- ♦ Identify cases of juvenile idiopathic arthritis (JIA) with ophthalmologic manifestations
- ♦ Evaluate cases of persistent epiphora in children after lacrimal duct probing
- ♦ Establish criteria for treatment and follow-up in patients with ROP
- ♦ Evaluate cases of papillary effacement in children and its relationship to medical conditions
- ♦ Identify causes of anisocoria in children and perform accurate evaluations
- ♦ Recognize papillary pallor in children and its clinical relevance

### Module 2. 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
- ♦ 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

### Module 3. Functional Aspects of Vision and Associated Disorders

- ♦ Deepen knowledge of intervention strategies for children with CVI
- ♦ Identify and evaluate visual maturational delay in childhood
- ♦ Recognize the visual implications of prematurity syndrome
- ♦ Study the ophthalmologic manifestations in children with infantile cerebral palsy
- ♦ Deepen in treatment strategies and visual rehabilitation in children with infantile cerebral palsy
- ♦ Identify and solve common visual problems in children with visual impairment
- ♦ Understand the importance of Simulation in the training of health professionals
- ♦ Recognize disorders related to vision and reading, such as dyslexia and cross laterality



*Take advantage of this unique opportunity to update your skills through an innovative and flexible academic proposal, with no time restrictions"*

# 03

## Course Management

TECH stands for efficiency and excellence, which is why it has selected an outstanding teaching staff to develop the syllabus of this exclusive Postgraduate Certificate. The program will be composed of renowned specialists in Pediatric Ophthalmology committed to educational innovation and dynamic learning. These highly qualified experts will ensure a quality up to date for physicians, offering them state-of-the-art knowledge and skills to become exceptional professionals in pediatric vision care. They will guide the graduate through the most recent advances, using modern methods and tools to strengthen their understanding.





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*The faculty is composed of passionate and dedicated experts who are leaders in the field of 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. 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

**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. 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. 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. 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

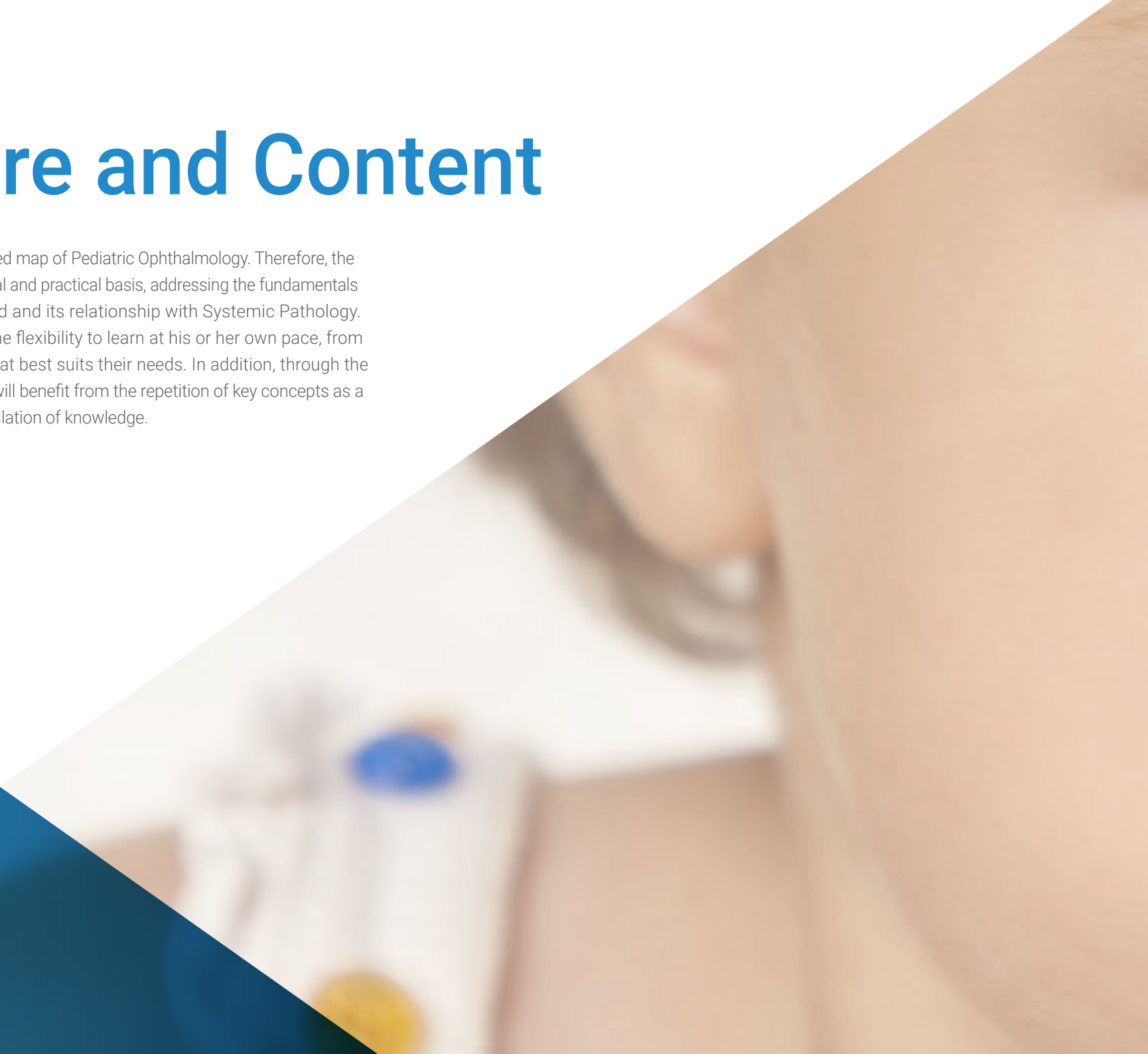
**Dr. Romero Sanz, María**

- ◆ Corresponsible 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

# 04

## Structure and Content

The program is presented as a detailed map of Pediatric Ophthalmology. Therefore, the graduate will receive a solid theoretical and practical basis, addressing the fundamentals of Visual Development in childhood and its relationship with Systemic Pathology. In this way, the student will enjoy the flexibility to learn at his or her own pace, from any location and at the schedule that best suits their needs. In addition, through the innovative Relearning method, you will benefit from the repetition of key concepts as a formula to ensure a complete assimilation of knowledge.





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*Prepare to analyze and master the fundamentals of Pediatric Ophthalmology in Visual Development and Systemic Pathology. Enroll now!”*

## Module 1. Practical Management of Special Situations in Pediatric Ophthalmology

- 1.1. Children Who Does Not See
  - 1.1.1. Causes of visual impairment in children
  - 1.1.2. Clinical history and evaluation in the child who does not see
  - 1.1.3. Diagnosis and approach in cases of visual impairment in childhood
  - 1.1.4. Communication and support strategies in children with visual impairment
- 1.2. Neonate with conjunctivitis
  - 1.2.1. Neonatal conjunctivitis: causes and diagnosis.
  - 1.2.2. Therapeutic approach in neonates with conjunctivitis
  - 1.2.3. Complications and prognosis in neonatal conjunctivitis
  - 1.2.4. Clinical cases and examples of conjunctivitis in neonates
- 1.3. JIA: how to deal with it
  - 1.3.1. Juvenile idiopathic arthritis (JIA): classification and subtypes
  - 1.3.2. Ocular manifestations in JIA
  - 1.3.3. Diagnosis and evaluation of ocular JIA
  - 1.3.4. Treatments and therapies in cases of ocular JIA
- 1.4. Epiphora despite probing
  - 1.4.1. Epiphora in children: causes and evaluation.
  - 1.4.2. Nasolacrimal probing in pediatric epiphora
  - 1.4.3. Alternative treatments in persistent epiphora
  - 1.4.4. Results and follow-up in epiphora in spite of probing
- 1.5. Acute strabismus in the child
  - 1.5.1. Acute strabismus in children: causes and diagnosis
  - 1.5.2. Evaluation and early approach in acute strabismus
  - 1.5.3. Treatments and surgery in cases of acute strabismus
  - 1.5.4. Outcome and prognosis in acute strabismus in childhood
- 1.6. ROP: what I see and how I treat it
  - 1.6.1. Retinopathy of prematurity (ROP): stages and classification
  - 1.6.2. Diagnosis and evaluation in ROP
  - 1.6.3. Treatments and follow-up in ROP
  - 1.6.4. Clinical cases and examples of ROP in premature infants

- 1.7. Papillary effacement
  - 1.7.1. Papillary effacement in children: causes and diagnosis
  - 1.7.2. Ophthalmologic evaluation in cases of papillary effacement
  - 1.7.3. Treatments and management in papillary effacement
  - 1.7.4. Outcomes and follow-up in children with papillary effacement
- 1.8. Practical approach to pediatric anisocoria
  - 1.8.1. Anisocoria in childhood: causes and classification
  - 1.8.2. Evaluation and diagnosis of pediatric anisocoria
  - 1.8.3. Approach and practical management of anisocoria in children
  - 1.8.4. Clinical cases and examples of pediatric anisocoria
- 1.9. Papillary pallor: practical approach
  - 1.9.1. Papillary pallor in children: causes and diagnosis
  - 1.9.2. Evaluation and studies in cases of papillary pallor
  - 1.9.3. Treatment and follow-up in children with papillary pallor
  - 1.9.4. Clinical cases and examples of papillary pallor
- 1.10. Strange ocular movements in the child
  - 1.10.1. Types and characteristics of ocular twitching in infancy
  - 1.10.2. Diagnosis and evaluation in cases of atypical eye movements
  - 1.10.3. Therapeutic approach and management in unusual eye movements
  - 1.10.4. Outcome and prognosis in children with atypical eye movements

## Module 2. Ophthalmologic Manifestations of Childhood Systemic Pathology

- 2.1. Phakomatosis
  - 2.1.1. Phakomatosis: definition and classification
  - 2.1.2. Syndromes and disorders related to Phakomatosis
  - 2.1.3. Evaluation and diagnosis in children with Phakomatosis
  - 2.1.4. Treatments and therapeutic approach in Phakomatosis
- 2.2. Neurofibromatosis
  - 2.2.1. Neurofibromatosis type 1 (NF1): characteristics and diagnosis
  - 2.2.2. Neurofibromatosis type 2 (NF2): evaluation and management
  - 2.2.3. Other forms of neurofibromatosis
  - 2.2.4. Clinical cases and examples of neurofibromatosis in children

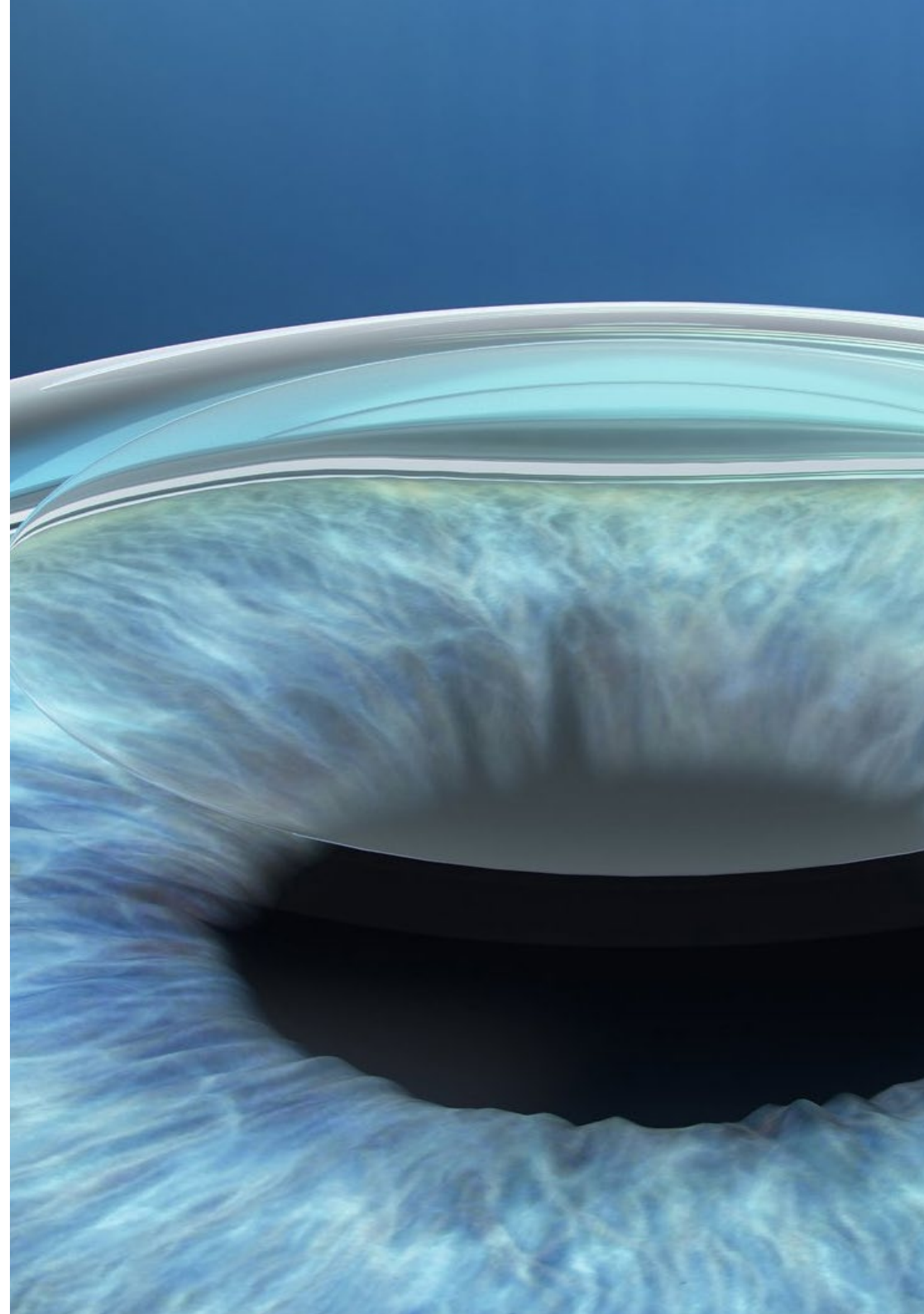
- 2.3. Pediatric tumor pathology I. SNC
  - 2.3.1. Brain tumors in children: types and classification
  - 2.3.2. Diagnosis and evaluation of tumors of the central nervous system (CNS)
  - 2.3.3. Treatments and surgery in pediatric brain tumors
  - 2.3.4. Follow-up and prognosis in pediatric CNS tumors
- 2.4. Pediatric tumor pathology 2: leukemia, neuroblastoma
  - 2.4.1. Leukemia in children: diagnosis and classification
  - 2.4.2. Neuroblastoma in childhood: etiology and characteristics
  - 2.4.3. Treatments and therapies in pediatric leukemia and neuroblastoma
  - 2.4.4. Outcomes and prognosis in pediatric leukemia and neuroblastoma
- 2.5. Mitochondrial pathology
  - 2.5.1. Mitochondrial disorders in childhood
  - 2.5.2. Diagnosis and evaluation of mitochondrial pathology
  - 2.5.3. Treatments and therapeutic approach in mitochondrial disorders
  - 2.5.4. Research and advances in mitochondrial pathology
- 2.6. Neurometabolic disorders
  - 2.6.1. Neurometabolic disorders in children: classification
  - 2.6.2. Evaluation and diagnosis of neurometabolic disorders
  - 2.6.3. Therapies and treatments in pediatric neurometabolic disorders
  - 2.6.4. Outcomes and follow-up in neurometabolic disorders
- 2.7. Intrauterine disorders and perinatal infection
  - 2.7.1. Intrauterine disorders of ocular development
  - 2.7.2. Perinatal infection and its impact on vision
  - 2.7.3. Diagnosis and management of intrauterine disorders and perinatal infection
  - 2.7.4. Complications and prognosis in cases of intrauterine disorders and perinatal infection
- 2.8. Other systemic pathologies: albinism, Marfan syndrome, etc.
  - 2.8.1. Albinism in children: characteristics and diagnosis
  - 2.8.2. Marfan's syndrome and other systemic disorders
  - 2.8.3. Ophthalmologic evaluation and care in cases of systemic pathologies
  - 2.8.4. Multidisciplinary approach in patients with systemic pathologies

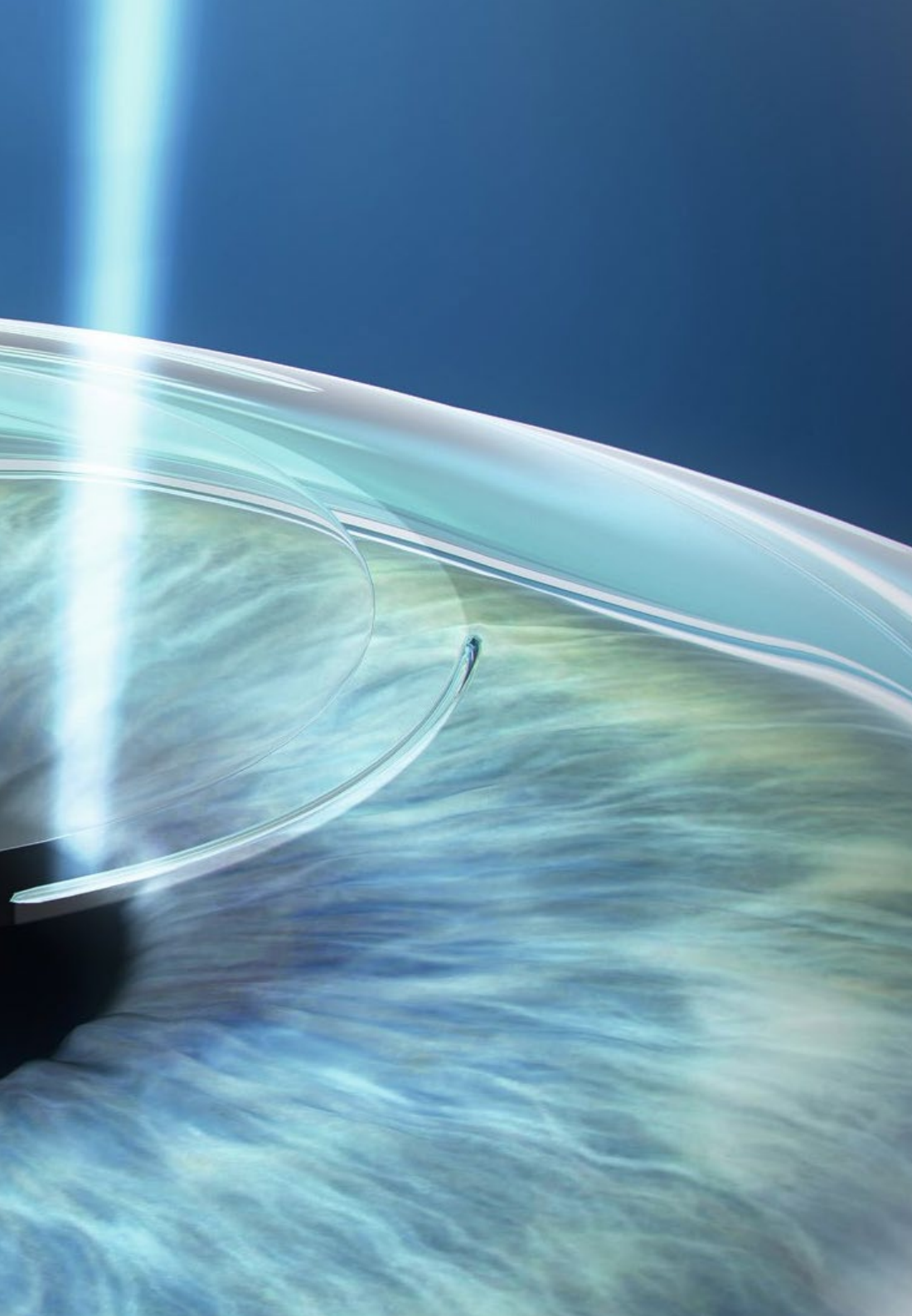
- 2.9. Pediatric ocular trauma
  - 2.9.1. Types and causes of ocular trauma in children
  - 2.9.2. Evaluation and diagnosis of pediatric ocular trauma
  - 2.9.3. Treatments and management of ocular trauma
  - 2.9.4. Outcomes and follow-up in pediatric ocular trauma cases
- 2.10. Battered child syndrome
  - 2.10.1. Identification and assessment of the battered child syndrome
  - 2.10.2. Intervention and support in child maltreatment cases
  - 2.10.3. Legal and ethical aspects of maltreated child syndrome
  - 2.10.4. Clinical cases and experiences in battered child syndrome

### Module 3. Functional Aspects of Vision or Other Associated Disorders

- 3.1. Child with Low Vision
  - 3.1.1. Evaluation and diagnosis of low vision in children
  - 3.1.2. Multidisciplinary approach to children with low vision
  - 3.1.3. Visual aids and assistive devices
  - 3.1.4. Rehabilitation and therapy in children with low vision
- 3.2. Cerebral visual impairment I
  - 3.2.1. Characteristics and diagnosis of cerebral visual impairment (CVI)
  - 3.2.2. Etiology and risk factors in CVI
  - 3.2.3. Therapies and treatments in CVI
  - 3.2.4. Outcomes and prognosis in children with CVI
- 3.3. Cerebral visual impairment II
  - 3.3.1. Functional and cognitive assessment in CVI
  - 3.3.2. Educational intervention and support in CVI
  - 3.3.3. Clinical cases and examples of CVI
  - 3.3.4. Research and advances in cerebral visual impairment
- 3.4. Visual maturational delay
  - 3.4.1. Evaluation and diagnosis of visual maturational delay
  - 3.4.2. Early intervention and visual stimulation
  - 3.4.3. Therapeutic approach in children with visual maturational delay
  - 3.4.4. Outcomes and follow-up in visual maturational delay

- 3.5. Prematurity syndrome
  - 3.5.1. Retinopathy of prematurity: diagnosis and classification
  - 3.5.2. Treatment and follow-up in retinopathy of prematurity
  - 3.5.3. Visual complications in premature infants
  - 3.5.4. Prevention and care in prematurity syndrome
- 3.6. Pediatric Cerebral Palsy
  - 3.6.1. Classification and types of infantile cerebral palsy (ICP)
  - 3.6.2. Functional assessment and diagnosis in CP
  - 3.6.3. Therapeutic approach in CP
  - 3.6.4. Specific therapies and treatments in PCI
- 3.7. Infantile Cerebral Palsy and Vision
  - 3.7.1. Complications and visual problems in CPI
  - 3.7.2. Neuropsychological aspects in children with CPI
  - 3.7.3. Quality of life and support in ICH
  - 3.7.4. Clinical cases and experiences in PCI
- 3.8. Addressing common problems in children with visual impairment
  - 3.8.1. Learning and developmental problems in children with visual impairment
  - 3.8.2. Communication and social skills in children with visual impairment
  - 3.8.3. Educational and social inclusion in children with visual impairment
  - 3.8.4. Strategies and resources for families of children with visual impairment
- 3.9. Simulation in the child
  - 3.9.1. Simulation of visual impairment in children
  - 3.9.2. Benefits and limitations of simulation
  - 3.9.3. Sensitization and empathy towards children with visual impairment
  - 3.9.4. Simulation tools and techniques
- 3.10. Dyslexia, crossed laterality and other disorders
  - 3.10.1. Dyslexia in children: diagnosis and approach
  - 3.10.2. Cross laterality in childhood
  - 3.10.3. Other learning and developmental disorders in children
  - 3.10.4. Educational strategies and support in dyslexia and related disorders





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*A unique training experience, key and decisive 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. Gervas, the clinical case is the annotated presentation of a patient, or group of patients, which becomes a "case", an example or model that illustrates some peculiar clinical component, either because of its teaching power or because of its uniqueness or rarity. It is essential that the case is based on current professional life, trying to recreate the real conditions in the physician's professional practice.



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*Did you know that this method was developed in 1912, at Harvard, for law students? The case method consisted of presenting students with real-life, complex situations for them to make decisions and justify their decisions on how to solve them. In 1924, Harvard adopted it as a standard teaching method”*

The effectiveness of the method is justified by four fundamental achievements:

1. Students who follow this method not only achieve the assimilation of concepts, but also a development of their mental capacity, through exercises that evaluate real situations and the application of knowledge.
2. Learning is solidly translated into practical skills that allow the student to better integrate into the real world.
3. Ideas and concepts are understood more efficiently, given that the example situations are based on real-life.
4. Students like to feel that the effort they put into their studies is worthwhile. This then translates into a greater interest in learning and more time dedicated to working on the course.



## Relearning Methodology

At TECH we enhance the case method with the best 100% online teaching methodology available: Relearning.

This university is the first in the world to combine the study of clinical cases with a 100% online learning system based on repetition, combining a minimum of 8 different elements in each lesson, a real revolution with respect to the mere study and analysis of cases.

*Professionals will learn through real cases and by resolving complex situations in simulated learning environments. These simulations are developed using state-of-the-art software to facilitate immersive learning.*



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

With this methodology, more than 250,000 physicians have been trained with unprecedented success in all clinical specialties regardless of surgical load. Our pedagogical methodology is developed in a highly competitive environment, with a university student body with a strong socioeconomic profile and an average age of 43.5 years old.

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

In our program, learning is not a linear process, but rather a spiral (learn, unlearn, forget, and re-learn). Therefore, we combine each of these elements concentrically.

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



This program offers the best educational material, prepared with professionals in mind:



#### Study Material

All teaching material is produced by the specialists who teach the course, specifically for the course, so that the teaching content is highly specific and precise.

These contents are then applied to the audiovisual format, to create the TECH online working method. All this, with the latest techniques that offer high quality pieces in each and every one of the materials that are made available to the student.



#### Surgical Techniques and Procedures on Video

TECH introduces students to the latest techniques, the latest educational advances and to the forefront of current medical techniques. All of this in direct contact with students and explained in detail so as to aid their assimilation and understanding. And best of all, you can watch the videos as many times as you like.



#### Interactive Summaries

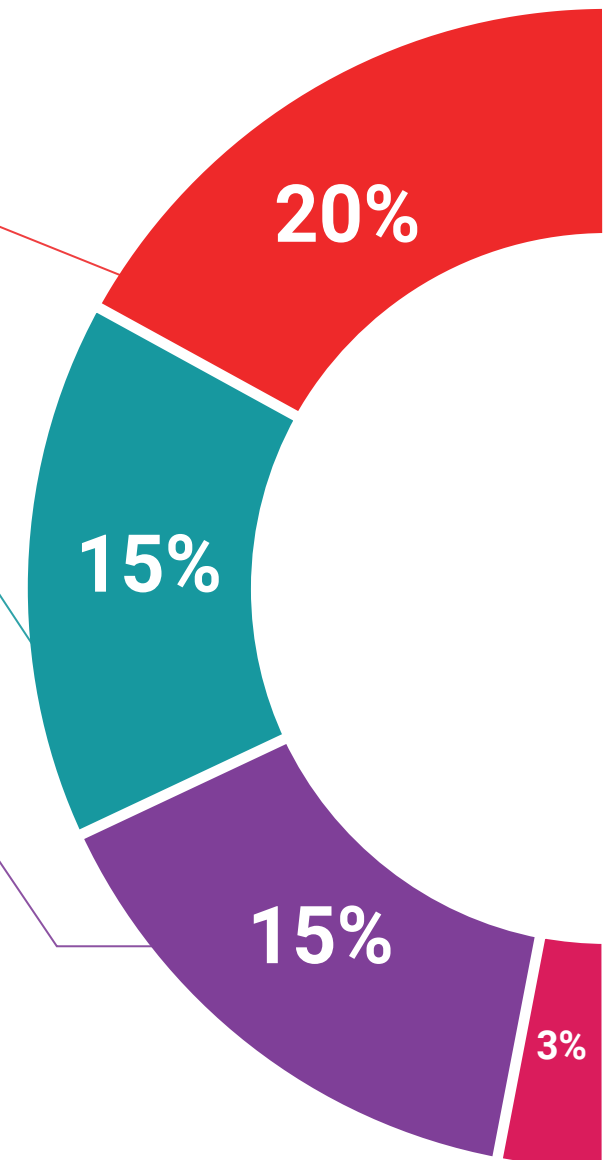
The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

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



#### Additional Reading

Recent articles, consensus documents and international guidelines, among others. In TECH's virtual library, students will have access to everything they need to complete their course.





#### 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

This Postgraduate Diploma Pediatric Ophthalmology in Visual Strategies, and Systemic Pathology guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Diploma issued by TECH Technological University.



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*Successfully complete this program and receive your university qualification without having to travel or fill out laborious paperwork”*

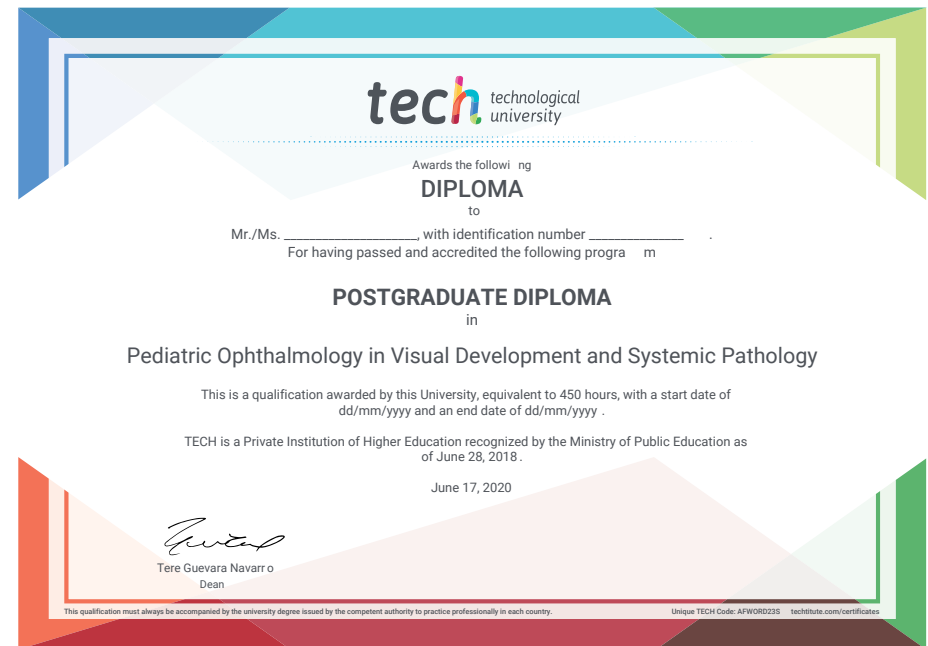
This **Postgraduate Diploma in Pediatric Ophthalmology in Visual Development and Systemic Pathology** contains the most complete and up-to-date scientific on the market.

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

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Title: **Postgraduate Diploma Pediatric Ophthalmology in Visual Development and Systemic Pathology**

Official N° of Hours: **450 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.



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# Postgraduate Diploma

## Pediatric Ophthalmology in Visual Development and Systemic Pathology

