

# Professional Master's Degree Clinical Ophthalmology





## Professional Master's Degree Clinical Ophthalmology

- » Modality: online
- » Duration: 12 months
- » Certificate: TECH Technological University
- » Dedication: 16h/week
- » Schedule: at your own pace
- » Exams: online

Website: [www.techtitute.com/us/medicine/professional-master-degree/master-clinical-ophthalmology](http://www.techtitute.com/us/medicine/professional-master-degree/master-clinical-ophthalmology)

# Index

01

Introduction

---

*p. 4*

02

Objectives

---

*p. 8*

03

Skills

---

*p. 12*

04

Course Management

---

*p. 16*

05

Structure and Content

---

*p. 24*

06

Methodology

---

*p. 28*

07

Certificate

---

*p. 36*

# 01

# Introduction

New technologies have made more diagnoses and treatments available to us that were unknown until recently, but they bring with them a degree of difficulty and a certain sense of volatility to our knowledge. For this reason, it is essential to keep up to date on everything related to medical practice. This Program in Clinical Ophthalmology offers students the opportunity to achieve this, by using the latest educational technology.





“

*With the Professional Master's Degree in Clinical Ophthalmology, you have the opportunity to update your knowledge comfortably and without sacrificing scientific accuracy, in order to incorporate the latest advances in the approach to ocular diseases into your daily medical practice"*

Vision Science in general, which includes Optics, Optometry, Ocular Pharmacology, and Ophthalmology, has made spectacular progress over the last ten years, together with significant technological development in the field. There have been noteworthy advances in the treatment of pathologies that, until recently, were leading causes of blindness, such as cataracts, glaucoma and alterations and degenerations of the retina and, especially, the macula.

All branches of ophthalmologic surgery have undergone changes that have completely transformed the approach to the pathologies associated with the field. The introduction of new scanning techniques, both in the anterior segment of the eyeball and in the posterior segment, has improved the diagnosis and monitoring of diseases, and allows the efficacy of treatment to be tracked. Diseases for which there was no treatment a decade ago are now effectively treated, such as age-related macular degeneration.

All these rapid advances are the result of multidisciplinary collaboration between seemingly unrelated disciplines such as Ophthalmology, Physics, Cell Biology, Bioengineering, Biochemistry, Optics, and Pharmacology, all of which justify the existence of this Professional Master's Degree program.

This **Professional Master's Degree in Clinical Ophthalmology** contains the most complete and up-to-date program on the market. The most important features include:

- ♦ More than 80 clinical cases presented by experts in the different specialities
- ♦ 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
- ♦ Diagnostic and therapeutic innovations in treating patients with ocular diseases
- ♦ Presentation of practical workshops on procedures, diagnosis, and treatment techniques
- ♦ High-definition images and practical self-assessment exercises on current medical advances
- ♦ An algorithm-based interactive learning system for decision-making in the clinical situations presented throughout the course
- ♦ Clinical practice guidelines on the different pathologies related to the eye
- ♦ All of this will be complemented by 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



*Seize the moment and take the step to get up to date on the latest innovations in Clinical Ophthalmology”*

“

*This Professional Master's Degree may be the best investment you can make when selecting a refresher program for two reasons: in addition to updating your knowledge in Clinical Ophthalmology, you will obtain a qualification from TECH Technological University"*

*Increase your decision-making confidence by updating your knowledge through this Professional Master's Degree.*

*Don't miss out on the opportunity to incorporate the latest medical advances in ophthalmology into your daily practice to improve your patients' care.*

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 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. For this purpose, the student will be assisted by an innovative interactive video system created by renowned and experienced experts.



# 02

# Objectives

The main objective of the program is to provide theoretical and practical learning, so that the physician maintains, on the one hand, extensive knowledge of clinical ophthalmology, and on the other hand, develops the necessary skills to establish the appropriate diagnosis and treatment in each case, allowing them to perform their work with absolute confidence.







“

*This refresher program will generate a sense of security when practising medicine, which will help you grow both personally and professionally”*



### General Objective

---

- Keep up to date with diagnostic and therapeutic procedures in Ophthalmology, incorporating the latest advances into your daily medical practice in order to increase the quality and safety of care and improve patient prognosis



*Acquire the necessary skills to specialize in this field and give a boost to your profession"*





## Specific Objectives

---

### Module 1. Cataract Surgery Update

- ♦ Update knowledge of cataract surgery

### Module 2. Update on Oculoplasty and Lacrimal Ducts

- ♦ Identify advances in the approach to oculoposterior surgery

### Module 3. Glaucoma Update

- ♦ Incorporate new developments in treating patients with glaucoma into routine medical practice
- ♦ Review the pathophysiology of glaucoma and identify new diagnostic and therapeutic procedures in patients

### Module 4. Ocular Surface and Cornea Update

- ♦ Describe the different ocular examination methods
- ♦ Identify new developments in the approach to corneal and ocular surface pathology

### Module 5. Refractive Surgery Update

- ♦ Determine the new methods of refractive surgery and its possible complications with ocular lenses
- ♦ Determine the new methods of laser refractive surgery and its possible complications with the use of an excimer laser

### Module 6. Update in Ophthalmopediatrics

- ♦ Expand knowledge in ophthalmopediatrics

### Module 7. Update in Surgical Retina

- ♦ Update knowledge in conjunctival and corneal neoplasia
- ♦ Identify signs and symptoms of toxic and traumatic anterior segment

### Module 8. Medical Retina Update

- ♦ Establish diagnostic and treatment methods for the most and least common ocular diseases
- ♦ Control the symptomatology of corneal infectious pathology
- ♦ Incorporate new developments in the management of retinal pathologies

### Module 9. Uveitis Update

- ♦ Identify the different types of uveitis and learn the new diagnostic and therapeutic procedures used
- ♦ Define the ocular manifestations of systemic diseases

### Module 10. Neuro-Ophthalmology

- ♦ Determine new methods in the surgical approach to lacrimal ducts
- ♦ Provide knowledge about the latest surgical techniques in ophthalmology
- ♦ Explain how to present scientific and clinical information, orally or in writing, in a succinct, clear, and well-organized manner
- ♦ Understand how to design and execute a research project

# 03 Skills

After passing the assessments of the Professional Master's Degree in Clinical Ophthalmology, the physician will have acquired the professional skills required for quality medical practice, that have been updated on the basis of the latest scientific evidence.





“

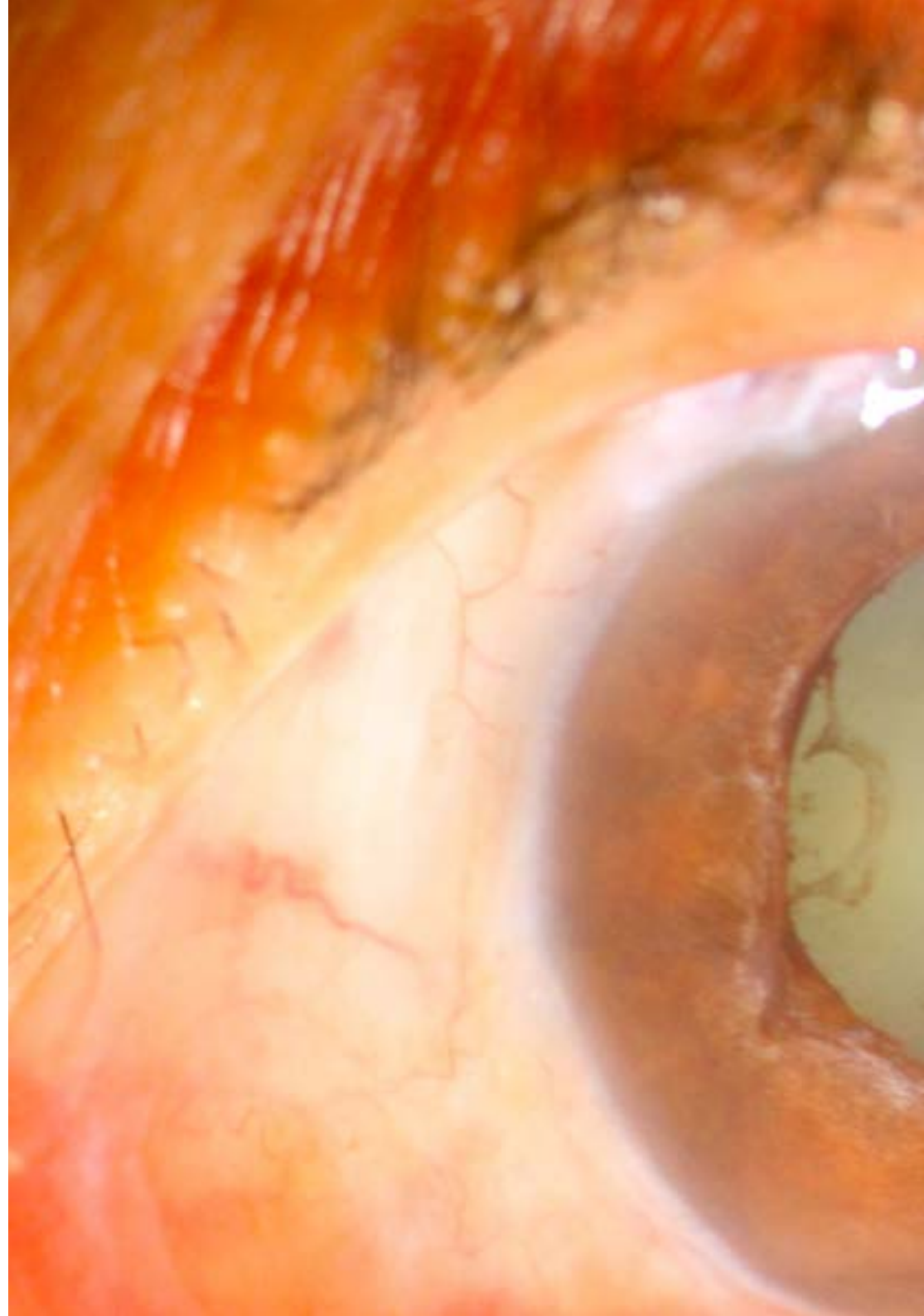
*With this program you will be able to master new diagnostic and treatment procedures for patients with ophthalmology diseases”*

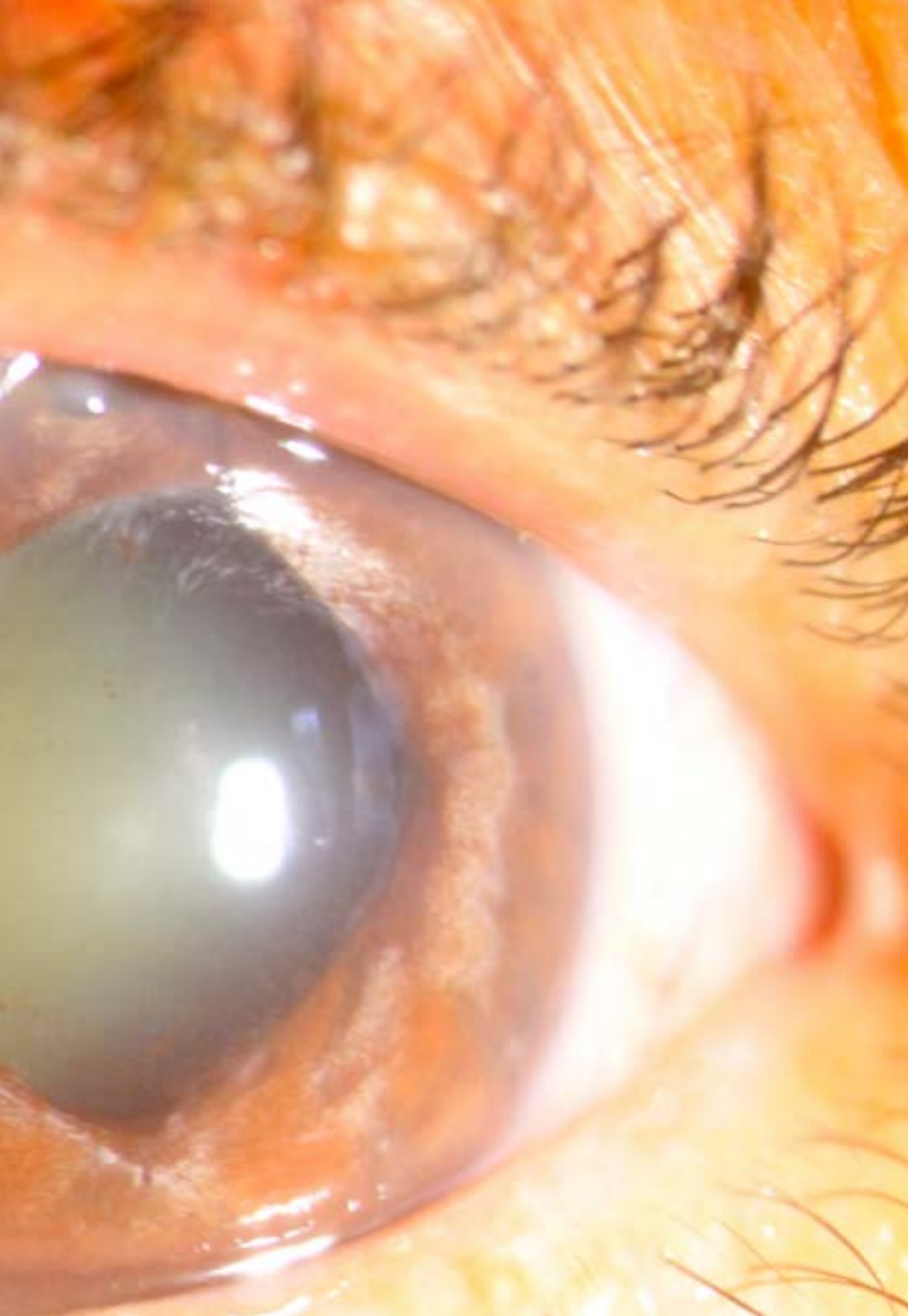


## General Skills

---

- ♦ Possess and understand knowledge that provides a basis or opportunity to be original in the development and/or application of ideas, often in a research context
- ♦ Know how to apply acquired knowledge and problem-solving skills in new or unfamiliar environments within broader (or multidisciplinary) contexts related to the area of study
- ♦ Integrate knowledge and face the complexity of making judgments based on incomplete or limited information, including reflections on the social and ethical responsibilities linked to the application of their knowledge and judgments
- ♦ Know how to communicate conclusions, knowledge, and supporting arguments to specialized and non-specialized audiences in a clear and unambiguous way
- ♦ Acquire the learning skills that will enable further studying in a largely self-directed or autonomous manner
- ♦ Develop within the profession in terms of working with other health professionals, acquiring skills to work as a team
- ♦ Recognize the need to maintain your professional skills and keep them up to date, with special emphasis on autonomous and continuous learning of new information
- ♦ Develop the capacity for critical analysis and research in your professional field





## Specific Skills

---

- ♦ Identify the main diagnostic and therapeutic techniques applied in Ophthalmology
- ♦ Correctly use the different eye examination methods
- ♦ Establish a differential diagnosis and establish the correct treatment for all the most common eye diseases as well as the least common ones
- ♦ Identify new methods of diagnosing and treating cataracts
- ♦ Learn about advances in oculoplasty in order to incorporate them into routine medical practice
- ♦ Perform appropriate glaucoma management based on the latest scientific evidence
- ♦ Thoroughly explore the latest morphological and functional developments of the ocular surface and cornea in order to improve the medical procedures related to them
- ♦ Incorporate the latest medical advances in refractive surgery procedures
- ♦ Learn the latest medical procedures in ophthalmopediatrics to ensure the best care for children with ocular pathology
- ♦ Use the latest techniques to manage uveitis appropriately
- ♦ Identify the clinical manifestations of retinal pathology and indicate the corresponding new diagnostic and therapeutic procedures for both medical and surgical care
- ♦ Manage scientific databases for carrying out reviews and bibliographic searches of scientific studies

# 04

# Course Management

The program's teaching staff includes nationally and internationally renowned specialists in ophthalmology, who practice in leading ophthalmology centers, and who contribute their work experience to this training.

In addition, recognized members of leading national and international scientific societies participate in its design and preparation.





“

*Learn the latest advances in diagnostic and therapeutic procedures in ophthalmology from leading professionals"*

## Management



### Dr. Navea Tejerina, Amparo

- ♦ FISABIO-Ophthalmology Medical Director (FOM)
- ♦ Doctor of Medicine. Specialist in Ophthalmology
- ♦ President of the FOM Teaching Commission. Head of the Retina Unit of the FOM, Head of the Ophthalmology Collection, FISABIO Biobank
- ♦ Associate Professor in charge of Ophthalmology at UCH-CEU Medicine in Castellón and Valencia
- ♦ Extensive experience in scientific publications, communications and presentations at conferences. Extensive experience in research work, projects, and thesis direction
- ♦ Member of the Spanish Society of Ophthalmology (SEO), the American Academy of Ophthalmology (AAO) and the Association for Research in Vision and Ophthalmology (ARVO). Sircova. IP OftaRed

## Coordination

### Dr. Lanzagorta Aresti, Aitor

- ♦ Specialist in Ophthalmology. Glaucoma specialist at FISABIO Medical Ophthalmology, Valencia, Spain

### Dr. Pérez López, Marta

- ♦ Specialist in Ophthalmology. Glaucoma specialist at FISABIO Medical Ophthalmology, Valencia, Spain

### Dr. Belda Sanchis, José

- ♦ Head of the Ophthalmology Department at Torrevieja University Hospital. Glaucoma Department at OFTALICA

### Dr. Peris Martínez, Cristina

- ♦ Specialist in Ophthalmology. Glaucoma specialist at FISABIO Medical Ophthalmology, Valencia, Spain

### Dr. Mengual Verdú, Encarnación

- ♦ Specialist in Ophthalmology in Alicante

### Dr. Gallego Pinazo, Roberto

- ♦ Specialist in Ophthalmology at La Fe University Hospital. Valencia



**Dr. Ruiz Moreno, José María**

- ♦ Professor of Ophthalmology at the Faculty of Medicine at the UCLM (University of Castilla La Mancha)
- ♦ Head of Service of the Puerta de Hierro Hospital Majadahonda
- ♦ Coordinator and Professor of the Doctorate Program in "Health Sciences" at UCLM
- ♦ President of the Spanish Society of Retina and Vitreous (SERV)
- ♦ Extensive experience in scientific publications, communications, and presentations at national and international conferences
- ♦ Development of lines of research in: Age-Related Macular Degeneration (AMD) and Pathological Myopia (PM)
- ♦ Member of the Spanish Society of Ophthalmology (SEO), the American Academy of Ophthalmology (AAO) and the European Society of Retina Specialists (EURETINA). IP OftaRed
- ♦ Extensive experience in scientific publications, communications, and presentations at national and international conferences
- ♦ Development of lines of research in: Age-Related Macular Degeneration (AMD) and Pathological Myopia (PM)
- ♦ Member of the Spanish Society of Ophthalmology (SEO), the American Academy of Ophthalmology (AAO) and the European Society of Retina Specialists (EURETINA). IP OftaRed

## Professors

### Dr. González López, Julio

- ♦ Ophthalmology Specialist, Glaucoma and Neuro-ophthalmology Unit, Ramón y Cajal Hospital, Madrid

### Dr. Alió del Barrio, Jorge L.

- ♦ Specialist in Ophthalmology. Specialist in Cornea, Cataract, and Refractive Surgery Service, Vissum Corporación

### Dr. Davó Cabrera, Juan María

- ♦ Specialist in Ophthalmology. FISABIO Medical Ophthalmology

### Dr. Marí Cotino, José

- ♦ Specialist in Ophthalmology, La Fe Hospital, Valencia, Spain

### Dr. Pastor Pascual, Francisco

- ♦ Specialist in Ophthalmology. Glaucoma specialist at FISABIO Medical Ophthalmology, Valencia, Spain

### Dr. Mateos Sánchez, Encarnación

- ♦ Specialist in Ophthalmology. Specialist in Thyroid Ophthalmopathy, Ocular Tumors at the Virgen de la Paloma Hospital, Madrid

### Dr. España Gregori, Enrique

- ♦ Specialist in Ophthalmology. Orbital and Oculoplasty Unit La Fe University and Polytechnic Hospital, Valencia, Spain

### Dr. Esteban Masanet, Miguel

- ♦ Head of the Ophthalmology Department at the Provincial Hospital of Castellón

### Dr. Laiseca Rodríguez, Andrés

- ♦ Specialist in Ophthalmology. Specialist in Orbital and Plastic Surgery and Ocular Prosthesis, FISABIO Medical Ophthalmology (Valencia) and Laiseca Clinic (Madrid)

### Dr. Urcola Carrera, Aritz

- ♦ Specialist in Ophthalmology. Anterior Segment Surgery Specialist, Glaucoma Treatment San Sebastián

### Dr. Alcocer Yuste, Pablo

- ♦ Specialist in Ophthalmology. Glaucoma specialist at FISABIO Medical Ophthalmology, Valencia, Spain

### Dr. Benítez del Castillo, Javier

- ♦ Ophthalmology Specialist in El Puerto de Santa María and Jerez de la Frontera

### Dr. Corsino Fernández Vila, Pedro

- ♦ Head of the Ophthalmology Department of Pontevedra University Hospital

### Dr. Urcelay Segura, Chema

- ♦ Head of the Glaucoma Section, Department of Ophthalmology, Hospital Gregorio Marañón, Madrid

### Dr. Schargel, Konrad

- ♦ Ophthalmology Specialist at the Central University of Venezuela

### Dr. Duch Tuesta, Susana

- ♦ Specialist in Ophthalmology. Specialist in Cataracts and Glaucoma

### Dr. Martínez de la Casa, José María

- ♦ Ophthalmology Specialist at Ophthalmological Clinic

### Dr. Rivera Ruiz, Esther

- ♦ Specialist in Ophthalmology in Alicante

**Dr. Javaloy Estañ, Jaime**

- ♦ Specialist in Ophthalmology. Refractive surgery clinic, refractive laser surgery, Ophthalmology Clinic and Baviera Clinic

**Dr. Montalbán Llamusi, Raúl**

- ♦ Graduate in Optics and Optometry from the University of Alicante
- ♦ Doctor from the University of Alicante

**Dr. Font Juliá, Elsa**

- ♦ Specialist in Ophthalmology, San Juan Hospital, Alicante, Spain

**Dr. Hernández Pardines, Fernando**

- ♦ Specialist in Ophthalmology, San Juan Hospital, Alicante, Spain

**Dr. García Sánchez, Juan**

- ♦ Specialist in Ophthalmology, San Juan Hospital, Alicante, Spain

**Dr. Aguirre Balsalobre, Fernando**

- ♦ Specialist in Ophthalmology. Doctor of Medicine Cardenal Herrera University

**Dr. Roig Revert, Maria José**

- ♦ Specialist in Ophthalmology. FISABIO Medical Ophthalmology, Valencia, Spain

**Dr. Fernández López, Ester**

- ♦ Specialist in Ophthalmology. Cornea Unit FISABIO Medical Ophthalmology, Valencia, Spain

**Dr. Del Buey Sayas, Maria Ángeles**

- ♦ Specialist in Ophthalmology. Lozano-Blesa Hospital Zaragoza

**Dr. Fandiño López, Adriana**

- ♦ Specialist in Ophthalmology. FISABIO Medical Ophthalmology, Valencia, Spain

**Dr. Hernández, Pablo**

- ♦ Specialist in Plastic, Aesthetic, and Reconstructive Surgery

**Dr. Palacios Pozo, Elena**

- ♦ Specialist in Ophthalmology. Retina Unit of FISABIO Medical Ophthalmology

**Dr. Martínez Toldos, José Juan**

- ♦ Head of the Ophthalmology Department at Elche University Hospital. Alicante

**Dr. Desco Esteban, Maria Carmen**

- ♦ Specialist in Ophthalmology. FISABIO Retina Unit Medical Ophthalmology
- ♦ Associate Prof. Ophthalmology UCH-CEU Valencia

**Dr. Mataix Boronat, Jorge**

- ♦ Specialist in Ophthalmology. Retina and Tumor Unit of FISABIO Medical Ophthalmology

**Dr. Araiz Iribarren, Javier**

- ♦ Scientific Director and Specialist in Vitreous Retina and Posterior Segment in ICQO (Clinical Surgical Institute of Ophthalmology)
- ♦ Graduate in Medicine and Surgery from the Universidad de Navarra
- ♦ Specialist in Ophthalmology from the University of Zaragoza

**Dr. Montero Moreno, Javier**

- ♦ Head of the Ophthalmology Department. Pío Río Hortega University Hospital

**Dr. González Viejo, Inmaculada**

- ♦ Specialist in Ophthalmology. Miguel Servet University Hospital. Zaragoza

**Dr. Capella Elizalde, María José**

- ♦ Ophthalmology Specialist in the Retina Unit at Barraquer Clinic, Barcelona, Spain.

**Dr. Arias Barquet, Luis**

- ♦ Head of the Ophthalmology Department. Bellvitge Hospital. Luis Arias Clinic
- ♦ Head of the Retina Section at Bellvitge University Hospital (L'Hospitalet de Llobregat, Barcelona). Since 2012
- ♦ Degree in Medicine and Surgery from the University of Barcelona, 1986 - 1992).
- ♦ Director of the Ophthalmology Clinic Dr. Lluís Arias Vilanova i la Geltrú, Barcelona. Since 2010
- ♦ Collaborating Professor at the University of Barcelona
- ♦ President of the Spanish Society of Retina and Vitreous (SERV)
- ♦ Outstanding Award in her PhD. Autonomous University of Barcelona (2007.)
- ♦ Member of the Following Ophthalmological Societies: American Academy of Ophthalmology, EURETINA, Spanish Society of Ophthalmology, Spanish Society of Retina and Vitreous and Catalan Society of Ophthalmology
- ♦ Member of: RETICS OFTARED RD12/0034/0015 Ocular diseases "Prevention, early detection and treatment of prevalent degenerative and chronic ocular pathology". Carlos III Health Institute. Ministry of Economy and Competitiveness. Government of Spain

**Dr. Ruíz Medrano, Jorge**

- ♦ Medical and Surgical Retina Fellow at the Jules Gonin Hospital, Lausanne Switzerland

**Dr. Coco Martín, Rosa Maria**

- ♦ Professor of Ophthalmology and Medical Director of the IOBA (Applied Ophthalmology Institute) at the University of Valladolid





**Dr. Abreu González, Rodrigo**

- ♦ Ophthalmologist specializing in Retina and Vitreous at the Candelaria University Hospital, Tenerife

**Dr. Fonollosa Calduch, Alex**

- ♦ Specialist in Ophthalmology, Cruces Hospital (Barakaldo, Bizkaia)

**Dr. Espinosa Garriga, Gerard**

- ♦ Consultant Physician of the Autoimmune Diseases Service at the Barcelon Clinical Hospital

**Dr. Donate López, Juan**

- ♦ Ophthalmologist in charge of the Retina and Macular Pathology Unit at the San Carlos Clinical Hospital, Madrid
- ♦ Head of the Retina Unit at the San Carlos Clinical Hospital. Madrid
- ♦ Head of the Ophthalmology Department at Hospital de La Luz. Quironsalud Group. Madrid
- ♦ Doctor in Ophthalmology. Complutense University of Madrid. 2016
- ♦ Degree in Medicine and General Surgery. University of Salamanca. 1994
- ♦ Managing Director of Ophthalmological Studies. Madrid
- ♦ Manager and administration of Agrupación Médico Quirúrgica Oftalmos SLP
- ♦ Member for the Community of Madrid of the Spanish Retina and Vitreous Society
- ♦ President of the foundation "Ver Salud"
- ♦ Member and co-director of the Spanish Macula Club
- ♦ Member of the following scientific societies: Spanish Society of Ophthalmology (SEO), Spanish Society of Vitreous and Retina (SERV) and Ophthared-Retics

# 05

# Structure and Content

The structure of the contents has been designed by a team of professionals who recognize the implications of medical training in patients with ocular pathologies and are aware of the relevance of current training for professionals. This program ensures that the main issues in the current development of clinical ophthalmology are addressed.







“

*This Professional Master's Degree in Clinical Ophthalmology contains the most complete and up-to-date scientific program on the market”*

### Module 1. Cataract Surgery Update

- 1.1. Preoperative Evaluation of Candidates for Cataract Surgery
- 1.2. Ophthalmic Viscosurgical Devices
- 1.3. IOL Calculation Formulas
- 1.4. Cataract Surgery: Step by Step
- 1.5. Pseudophakic Intraocular Lens
- 1.6. Technological Update in Cataract Surgery (I): Femtosecond Laser
- 1.7. Technological Update in Cataract Surgery (II): Interoperative Guidance Systems
- 1.8. Lens Surgery in Special Situations
- 1.9. Complications of Cataract Surgery
- 1.10. Cataracts and Glaucoma. Bilateral and Simultaneous Cataract Surgery

### Module 2. Update on Oculoplasty and Lacrimal Ducts

- 2.1. Palpebral and Orbital Anatomy
- 2.2. Blepharoplasty
- 2.3. Ptosis and Eyelid Malposition
- 2.4. Eyelid Tumors
- 2.5. Lacrimal Puncta Surgery
- 2.6. Dacryocystorhinostomy via External/Endoscopic Route
- 2.7. Orbital tumors
- 2.8. Thyroid Orbitopathy
- 2.9. New Treatments in Thyroid Orbitopathy
- 2.10. Ablative Ocular Surgery. Management of the Anophthalmic Cavity

### Module 3. Glaucoma Update

- 3.1. Diagnosis I: Intraocular Pressure and Pachymetry
- 3.2. Diagnosis II: Angle Study: Gonioscopy and Other Methods
- 3.3. Diagnosis III: Campimetry
- 3.4. Diagnosis IV: Analysis of the Papilla and the Nerve Fiber Layer
- 3.5. Pathophysiology of Glaucoma and Classification
- 3.6. Treatment I: Medical

- 3.7. Treatment II: Laser
- 3.8. Treatment III: Filtering Surgery
- 3.9. Treatment IV: Surgery with Tube-Plate Drainage Implants and Cyclodestructive Procedures
- 3.10. New Perspectives in Glaucoma: The Future

### Module 4. Ocular Surface and Cornea Update

- 4.1. Corneal Dystrophies
- 4.2. Dry Eye and Ocular Surface Pathology
- 4.3. Corneal Surgery (PPK, DALK, DSAEK, DMEK)
- 4.4. Corneal Crosslinking
- 4.5. Conjunctival and Corneal Neoplasms
- 4.6. Toxic and Traumatic Lesions of the Anterior Segment
- 4.7. Ectasia (Keratoconus, Pellucid Marginal Degeneration, Post-LASIK Degenerations)
- 4.8. Infectious Corneal Pathology I
- 4.9. Infectious Corneal Pathology II

### Module 5. Refractive Surgery Update

- 5.1. Excimer Laser Refractive Surgery. Techniques Used. Indications and Contraindications
- 5.2. Refractive Surgery
- 5.3. Femtosecond Laser: Use in Refractive Surgery
- 5.4. Refractive Surgery with Phakic Intraocular Lenses
- 5.5. Main Complications in Refractive Surgery with Intraocular Lenses
- 5.6. Intraocular Lens Calculation in Refractive Surgery. Biometrics
- 5.7. Surgical Management of Presbyopia
- 5.8. Multifocal Intraocular Lenses: Indications, Contraindications and Keys to Successful Lens Management
- 5.9. Surgical Management of Astigmatism
- 5.10. Pseudophakic Intraocular Lens

**Module 6. Update in Ophthalmopediatrics**

- 6.1. The Middle Ages, Modern Times, the Enlightenment
- 6.2. Management of Epiphora, Palpebral and Conjunctival-Corneal Pathology in Children
- 6.3. Amblyopia: Etiology, Diagnosis and Treatment
- 6.4. Vertical Strabismus, Alphabetic Syndromes and Restrictive Syndromes: Stilling-Duane, Brown, Möebius, and Congenital Fibrosis
- 6.5. Glaucoma in Childhood
- 6.6. Differential Diagnosis of Leukocoria
- 6.7. Differential Diagnosis of Leukocoria: Most Common Pathologies, Diagnosis and Treatment
- 6.8. Alterations of the Crystalline Lens in the Pediatrics. Congenital Cataracts
- 6.9. Diagnosis and Treatment of Nystagmus in Pediatrics
- 6.10. Botulinum Toxin in Strabology

**Module 7. Update in Surgical Retina**

- 7.1. Update on Retinal Surgery
- 7.2. Vitreous Substitutes in Surgery
- 7.3. New Techniques in Vitrectomy
- 7.4. Retinal Detachment and PVR Surgery
- 7.5. Macular Surgery: on the Surface
- 7.6. Macular Surgery: Subretinal
- 7.7. Surgery on Diabetic Retinopathy
- 7.8. Surgery on Intraocular Tumors
- 7.9. Posterior Pole Surgery in Anterior Pole Complications

**Module 8. Medical Retina Update**

- 8.1. Non-AMD Subretinal Neovascularization
- 8.2. Update on Macular Diagnosis
- 8.3. Diabetic Retinopathy
- 8.4. Retinal Vascular Occlusions
- 8.5. Retinopathy of Prematurity
- 8.6. Macular Degeneration Related to Aging
- 8.7. Myopia Magna and Pathologic Myopia
- 8.8. Posterior Segment Tumors
- 8.9. Retinal Dystrophies

**Module 9. Uveitis Update**

- 9.1. Epidemiology of Uveitis
- 9.2. Diagnosis of Uveitis
- 9.3. New Treatments in Uveitis
- 9.4. Episcleritis and Scleritis
- 9.5. Acute and Chronic Anterior Uveitis
- 9.6. Intermediate Uveitis and Parsplanitis
- 9.7. Non-Infectious Posterior Uveitis
- 9.8. Infectious Posterior Uveitis

**Module 10. Neuro-Ophthalmology**

- 10.1. Exploration in Neuro-Ophthalmology
- 10.2. Papillary Edema
- 10.3. Papillary Pallor
- 10.4. Loss of Vision with Normal Fundus
- 10.5. Transient Loss of Vision
- 10.6. Pupillary Alterations
- 10.7. Eye Movement Alterations
- 10.8. Orbital Disease in Neuro-Ophthalmology
- 10.9. Eyelid Disorders and Ptosis in Neurological Diseases
- 10.10. Low Vision in Neurological Diseases



*A unique, key, and decisive opportunity to boost your professional development"*

06

# 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.



“

*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.

“

*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.



# 07 Certificate

The Professional Master's Degree in Clinical Ophthalmology guarantees students, in addition to the most rigorous and updated education, access to a Professional Master's Degree issued by TECH Technological University.





“

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

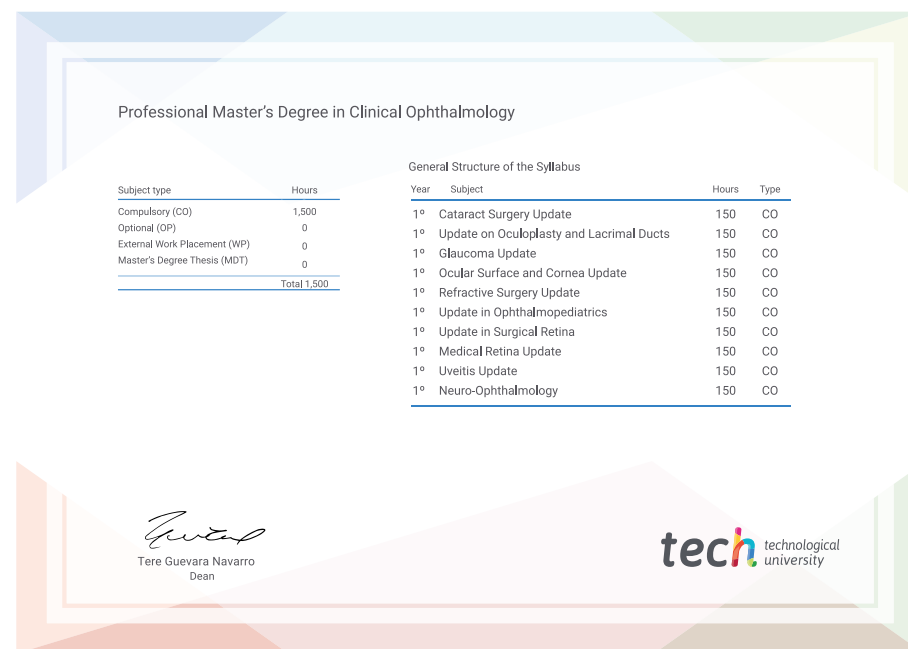
This **Professional Master's Degree in Clinical Ophthalmology** contains the most complete and up-to-date program on the market.

After the student has passed the assessments, they will receive their corresponding **Professional Master's Degree** issued by **TECH Technological University** via tracked delivery\*.

The diploma issued by **TECH Technological University** will reflect the qualification obtained in the Professional Master's Degree, and meets the requirements commonly demanded by labor exchanges, competitive examinations and professional career evaluation committees.

Title: **Professional Master's Degree in Clinical Ophthalmology**

Official N° of hours: **1,500 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.

future

health confidence people

education information tutors

guarantee accreditation teaching

institutions technology learning

community commitment

personalized service innovation

knowledge present quality

online training

development languages

virtual classroom

**tech** technological  
university

## Professional Master's Degree Clinical Ophthalmology

- » Modality: online
- » Duration: 12 months
- » Certificate: TECH Technological University
- » Dedication: 16h/week
- » Schedule: at your own pace
- » Exams: online

# Professional Master's Degree Clinical Ophthalmology

