

# Postgraduate Certificate

Inflammatory Eye Diseases  
Affecting the Macula, Retina,  
and Vitreous



## Postgraduate Certificate Inflammatory Eye Diseases Affecting the Macula, Retina, and Vitreous

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

Website: [www.techtute.com/us/medicine/postgraduate-certificate/postgraduate-certificate-inflammatory-eye-diseases-affecting-macula-retina-vitreous](http://www.techtute.com/us/medicine/postgraduate-certificate/postgraduate-certificate-inflammatory-eye-diseases-affecting-macula-retina-vitreous)

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# 01

# Introduction

The detailed knowledge of the different causes of inflammatory processes of the uvea, retina and vitreous helps ophthalmology professionals to face this difficult discipline from the perspective of knowledge, so that patients are treated with greater security, generating mutual trust and avoiding the frustrations that a wrong diagnosis can generate. To train professionals in this field, we have designed this very complete academic program.





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*Ophthalmologists will find in this postgraduate certificate the perfect opportunity to increase their training and improve in the care of patients with inflammatory diseases of the eye”*

In daily clinical practice, one of the most frustrating disciplines for , both patients and clinicians , is the treatment of uveitis. Poor diagnosis leads to poor treatment and, in the end, to a chronification of inflammatory processes that lead to the slow but inexorable loss of the patient's vision.

This course offers a comprehensive and orderly program of all the knowledge necessary to be an expert in ocular inflammatory diseases affecting the retina and vitreous. In addition, the differential diagnosis of masquerade syndromes is a task that is covered extensively in the course, resulting in increased knowledge and greater confidence on the part of the student in the development of their profession.

The training program has a teaching staff specialized in ocular pathology and surgery, and that brings both their practical experience of their day to day in private practice, as well as their long experience of teaching at national and international level. In addition, it has the advantage of being a 100% online training, so the student can decide from where to study and at what time to do it. This way, you will be able to flexibly self-direct your study hours.

This Postgraduate Certificate in **Inflammatory Eye Diseases Affecting of Macula, Retina, and Vitreous** has the most complete and updated scientific program in the market. The most important features of the program include:

- ♦ The development of clinical cases presented by experts in ocular pathology and surgery.
- ♦ The graphic, schematic, and eminently practical contents with which they are created provide scientific and practical information on the disciplines that are essential for professional practice.
- ♦ The presentation of practical workshops on procedures and techniques.
- ♦ An algorithm-based interactive learning system for decision-making in the clinical situations presented throughout the course.
- ♦ Action protocols and clinical practice guidelines, where the most important novelties in the specialty are disseminated.
- ♦ Theoretical lessons, questions to the expert, discussion forums on controversial topics and individual reflection papers.
- ♦ Special emphasis on evidence-based medicine and research methodologies.
- ♦ The availability of access to the contents from any fixed or portable device with Internet connection.



*This postgraduate certificate is the best option you can find to increase your knowledge in ocular disease and give a plus to your professional career"*



*This postgraduate certificate is the best investment you can make in training to update your knowledge of inflammatory eye diseases affecting the macula, retina, and vitreous"*

It includes in its teaching staff a team of medical professionals, who pour into this training the experience of their work, in addition to recognized specialists belonging to scientific societies of reference.

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 an immersive training experience designed to train for real-life 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. This will be done with the help of an innovative interactive video system created by renowned experts in inflammatory diseases affecting the macula, retina, and vitreous, and with extensive teaching experience.

*This 100% online course allow you to study from anywhere in the world. All you need is a computer or mobile device with an internet connection.*

*Our innovative teaching methodology will allow you to study as if you were dealing with real cases, and therefore increasing your training.*



02

# Objectives

The Postgraduate Certificate in Inflammatory Eye Diseases Affecting the Macula, Retina, and Vitreous is aimed at facilitating the performance of the professional dedicated to health with the latest advances and latest treatments in the sector.







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*This training will create a sense of confidence in daily practice and help you to grow professionally"*



## General Objectives

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- Expand your knowledge about inflammatory diseases of the retina, macula, and vitreous..
- Know the diagnostic tests for uveitis, treatment of cystoid macular oedema, as well as other inflammatory diseases of the macula..
- Delve into autoimmune retinopathies and masquerade syndromes



*Our goal is to achieve academic excellence and to help you achieve it too."*





## Specific Objectives

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- ◆ Know the basic and exploratory principles of uveitis.
- ◆ Learn about cystoid macular oedema.
- ◆ Understand evanescent whitehead disease and associated diseases.
- ◆ Know about acute multifocal posterior placoid disease.
- ◆ Develop a thorough understanding of serpiginous choroiditis, Vogt-Koyanagi-Harada syndrome, multifocal choroiditis, sympathetic ophthalmia, autoimmune retinopathies, intermediate uveitis, and masquerade syndromes..

03

# Course Management

The creation of the materials has been carried out by a team of leading professionals in ophthalmology, who perform their professional activity in the main hospitals in the country, transferring to the program the experience gained in their jobs throughout their careers.





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*The best professionals in this area have joined forces to offer you the most specialised and up-to-date knowledge in the field".*

## Management



### Dr. Armadá Maresca, Félix

- ♦ Head of Ophthalmology Service, La Paz University Hospital, Madrid.
- ♦ Doctor of Medicine. Autonomous University of Madrid.
- ♦ Degree in Medicine. Alcalá de Henares University.
- ♦ Director of the Department of Ophthalmology at the San Francisco de Asís University Hospital in Madrid.
- ♦ Certified Ophthalmic Photographer, University of Wisconsin, Madison, USA.
- ♦ The Chalfont Project, Chalfont St Giles, HP8 4XU United Kingdom. Year 2002
- ♦ ESADE - Course in Strategic Management of Clinical Services. 2011.
- ♦ IESE - VISIONA course, clinical management in ophthalmology. 2020.
- ♦ Professor of Medicine at the Alfonso X el sabio University.
- ♦ Lecturer in the Master "Expert in Health Management in Ophthalmology" of the Ministry of Health of the Community of Madrid. 2020.
- ♦ Member of the Madrid Society of Ophthalmology and External Collaborator of Several Companies in the Medical Sector.

## Professors

### Dr. Fonollosa, Alex

- Assistant of the Ophthalmology Service at Cruces University Hospital (Retina and Uveitis section). Since 2009
- Doctor in Medicine in 2007 at the Autonomous University of Barcelona (Extraordinary Prize).
- Degree in Medicine at the Autonomous University of Barcelona..
- Coordinator of the Retina and Uveitis Unit at the Ophthalmological Institute of Bilbao. Since 2011
- Specialist in Ophthalmology in 2006
- Assistant of the Ophthalmology service of the Hospital Valld'Hebron of Barcelona between 2006 and 2009.
- Associate Professor of Ophthalmology at the University of the Basque Country since 2017.
- Main researcher of the Ophthalmology research group at BioCruces and member of the Experimental Ophthalmobiology Group at the University of the Basque Country.



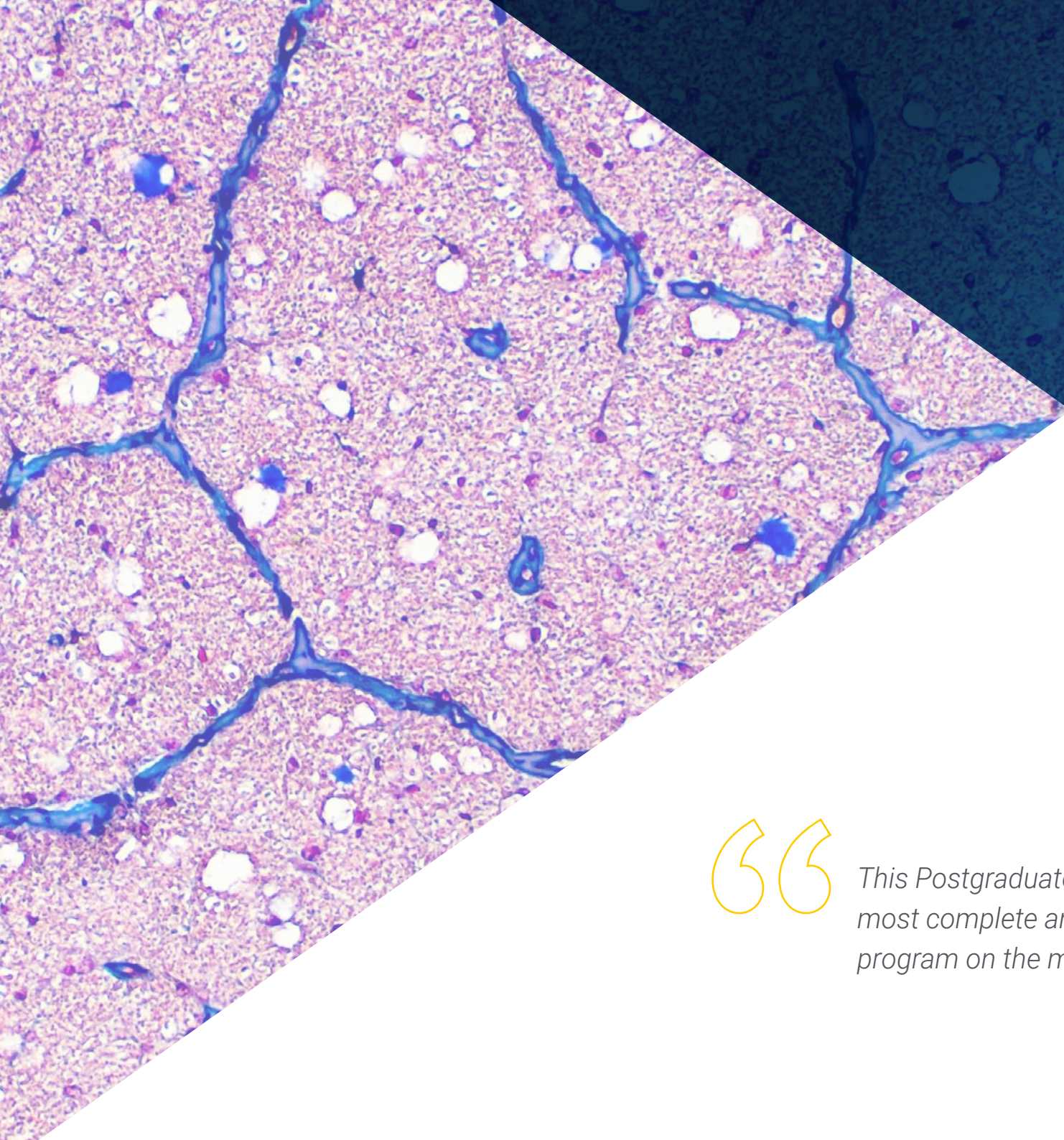
# 04

# Structure and Content

The structure of the syllabus has been designed by a team of professionals who are knowledgeable regarding the implications of medical training in the approach to patients, aware of the relevance of current training and committed to quality teaching through new educational technologies.







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*This Postgraduate Diploma contains the most complete and up-to-date scientific program on the market”*

## Module 1. Inflammatory Eye Diseases with Affection of Macula, Retina, and Vitreous.

- 1.1. Diagnosis and Treatment of Uveitis.
  - 1.1.1. Diagnosis of Uveitis.
    - 1.1.1.1. Systematic Approach to the Diagnosis of Uveitis.
    - 1.1.1.2. Classification of Uveitis.
    - 1.1.1.3. Localisation of Uveitis.
    - 1.1.1.4. Approach to Patients, The clinical History as a Diagnostic Asset.
    - 1.1.1.5. Detailed Eye Examination. Diagnostic Guidance.
    - 1.1.1.6. Most Common Tests Used for the Study of Uveitis.
    - 1.1.1.7. Differential Diagnosis Tables.
  - 1.1.2. Imaging Tests Used for the Study of Uveitis. Systemic Imaging Tests.
  - 1.1.3. Ophthalmological Imaging Tests. Fundus photograph, AFG, ICG, OCT, angioOCT, BMU, Ultrasound, etc.
  - 1.1.4. General Treatment for Uveitis.
    - 1.1.4.1. Corticosteroids
    - 1.1.4.2. Mydriatic and Cycloplegic Agents.
    - 1.1.4.3. Non-Steroidal Anti-Inflammatory Drugs (NSAIDs).
    - 1.1.4.4. Immunosuppressive Treatments
    - 1.1.4.5. New Biological Therapies To Treat Uveitis.
  - 1.1.4. Diagnostic Surgery for Uveitis. Retinal Biopsies
  - 1.1.5. Therapeutic Surgery: Cornea, Iris, Cataracts, Glaucoma, Vitreous and Retina. Comprehensive Treatment for Uveitis.
- 1.2. Cystoid Macular Edema.
  - 1.2.1. Pathophysiology, Blood-Retinal Barrier Function.
  - 1.2.2. Histology of Cystoid, Macular Edema.
  - 1.2.3. Mechanisms of Blood-Retinal Barrier Breakdown.
  - 1.2.4. Exploration of Cystoid Macular Edema. Fluorescein Angiographic Patterns, OCT, AngioOCT, and Clinical in Face.
  - 1.2.5. Vitreous Fluorophotometry
  - 1.2.6. Treatment of Post-Surgical Macular Edema.
- 1.3. White Spot Syndromes and Associated Diseases.
  - 1.3.1. Birdshot: Chorioretinopathy in Buckshots.
  - 1.3.2. Placoid Diseases
  - 1.3.3. Multifocal Choroiditis and Panuveitis, Internal Punctate Choroidopathy Syndrome, and Progressive Subretinal Fibrosis and Uveitis.
  - 1.3.4. Multiple Evanescent White Plaques Syndrome. Main Characteristics, Evolution and Differential Diagnosis.
  - 1.3.5. Acute Zonal External Retinopathy.
  - 1.3.6. Acute Macular Neuroretinopathy.
- 1.4. Acute Multifocal Posterior Placoid Epitheliopathy.
  - 1.4.1. Etiopathogenesis.
  - 1.4.2. Clinical Presentation.
  - 1.4.3. Angiographic Scanning Patterns.
  - 1.4.4. OCT, AngioOCT Scanning.
  - 1.4.5. Natural History of the Disease.
  - 1.4.6. Differential Diagnosis.
  - 1.4.6. Treatment.
- 1.5. Serpiginous Choroiditis
  - 1.5.1. Etiopathogenesis of Serpiginous Choroiditis.
  - 1.5.2. Clinical and Natural history of the Disease.
  - 1.5.3. Techniques for Examining Serpiginous Choroiditis.
  - 1.5.4. Angiographic Patterns and Structural OCT.
  - 1.5.5. Differential Diagnosis.
  - 1.5.6. Treatment.
- 1.6. Vogt-Koyanagi-Harada Syndrome.
  - 1.6.1. Introduction and Classification of Vogt-Koyanagi-Harada syndrome.
  - 1.6.2. Macular Damage.
  - 1.6.3. Natural History of the Disease.
  - 1.6.4. Scanning, Angiographic Patterns, OCT Imaging, AngioOCT.
  - 1.6.5. Differential Diagnosis.
  - 1.6.6. Treatment of Associated and Recurrent Neovascular Membranes.
- 1.7. Multifocal Choroiditis.
  - 1.7.1. Epidemiology of Multifocal Choroiditis.
  - 1.7.2. Etiopathogenesis of Multifocal Choroiditis.
  - 1.7.3. Clinical Presentation.

- 1.7.4. Exploration of Multifocal Choroiditis. Angiographic Patterns, ICG, OCT, and angioOCT.
- 1.7.5. Differential Diagnosis.
- 1.7.6. Natural History of Multifocal Choroiditis.
- 1.7.7. Current Treatment.
- 1.8. Sympathetic Ophthalmia.
  - 1.8.1. Epidemiology of Sympathetic Ophthalmia.
  - 1.8.2. Pathophysiology of Sympathetic Ophthalmia.
  - 1.8.3. Immunopathology of Sympathetic Ophthalmia.
  - 1.8.4. Clinical Findings.
  - 1.8.5. Scanning, Angiographic Pattern, Structural OCT, and AngioOCT.
  - 1.8.6. Differential Diagnosis.
  - 1.8.7. Natural History of the Disease, Course, and Possible Complications.
  - 1.8.8. Treatment, Prevention and Prognosis.
- 1.9. Autoimmune Retinopathies
  - 1.9.1. Epidemiology and Mechanisms of Action.
  - 1.9.2. Clinical Manifestations of Autoimmune Retinopathies.
  - 1.9.3. Diagnosis, Angiographic Patterns, OCT, and AngioOCT.
  - 1.9.4. Differential Diagnosis.
  - 1.9.5. Natural History, Evolution, and Possible Complications.
  - 1.9.6. Local and Systemic Treatments.
  - 1.9.7. Prognosis.
- 1.10. Ocular Sarcoidosis
  - 1.10.1. General Considerations in Ocular Sarcoidosis.
  - 1.10.2. Natural History and Prognosis of Ocular Sarcoidosis.
  - 1.10.3. Ocular Manifestations of Sarcoidosis.
  - 1.10.4. Posterior Segment Eye Disease.
  - 1.10.5. Ocular Scanning, AFG Patterns, Structural OCT, and AngioOCT.
  - 1.10.6. Treatment for Retinal Sarcoidosis.
- 1.11. Intermediate Uveitis.
  - 1.11.1. Introduction.
  - 1.11.2. Epidemiology and Demography.
  - 1.11.3. Clinical Findings, Examination of Intermediate Uveitis.
  - 1.11.4. Histopathology of Intermediate Uveitis.
  - 1.11.5. Clinical Course and Complications.
  - 1.11.6. Treatment for Intermediate Uveitis.
- 1.12. Uveitis Masquerade Syndromes.
  - 1.12.1. Malignant Uveitis Masquerade Syndromes.
    - 1.12.1.1. Intraocular Central Nervous System Lymphoma.
    - 1.12.1.2. Leukaemias.
    - 1.12.1.3. Malignant Melanoma.
    - 1.12.1.4. Retinoblastoma.
    - 1.12.1.5. Metastases.
    - 1.12.1.6. Paraneoplastic Syndromes
  - 1.12.2. Uveitis Masquerade Syndromes, Endophthalmitis.
    - 1.12.2.1. Chronic Postoperative Endophthalmitis.
    - 1.12.2.2. Endogenous Endophthalmitis.
  - 1.12.3. Non-malignant and Non-infectious Masquerade Syndromes.
    - 1.12.3.1. Regmatogenic Retinal Detachment.
    - 1.12.3.2. Retinitis Pigmentosa.
    - 1.12.3.3. Intraocular Foreign Bodies.
    - 1.12.3.4. Pigmentary dispersion.
    - 1.12.3.5. Ocular Ischaemia Syndrome.
    - 1.12.3.6. Juvenile Xanthogranuloma.

05

# Methodology

This training program provides you with a different way of learning. Our methodology uses a cyclical learning approach: ***Re-learning***.

This teaching system is used 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 Re-learning, 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

In a given situation, what would you do? Throughout the program, you will be presented with multiple simulated clinical cases based on real patients, where you will have to investigate, establish hypotheses and, finally, resolve the situation. There is abundant scientific evidence on the effectiveness of the method. Specialists learn better, faster, and more sustainably over time.

*With TECH you can experience a way of learning that is shaking the foundations of traditional universities around the world.*



According to Dr. Gérvas, the clinical case is the annotated presentation of a patient, or group of patients, which becomes a "case", an example or model that illustrates some peculiar clinical component, either because of its teaching potential or because of its uniqueness or rarity. It is essential that the case is based on current professional life, trying to recreate the real conditions in professional medical practice.

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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 grasp concepts, but also develop their mental capacity by evaluating real situations and applying their knowledge.
2. The learning process has a clear focus on practical skills that allow the student to better integrate into the real world.
3. Ideas and concepts are understood more efficiently, given that the example situations are based on real-life.
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.



## Re-Learning Methodology

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

Our University is the first in the world to combine the study of clinical cases with a 100% online learning system based on repetition, combining a minimum of 8 different elements in each lesson, which represent a real revolution with respect to simply studying and analyzing cases.



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



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

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

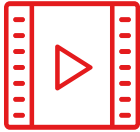
*Re-learning will allow you to learn with less effort and better performance, involving you more in your specialization, developing a critical mindset, defending arguments, and contrasting opinions: a direct equation to success.*

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

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



In this program you will have access to the best educational material, prepared with you in mind.



### Study Material

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

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



### Surgical techniques and clinical procedures on video

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



### Interactive Summaries

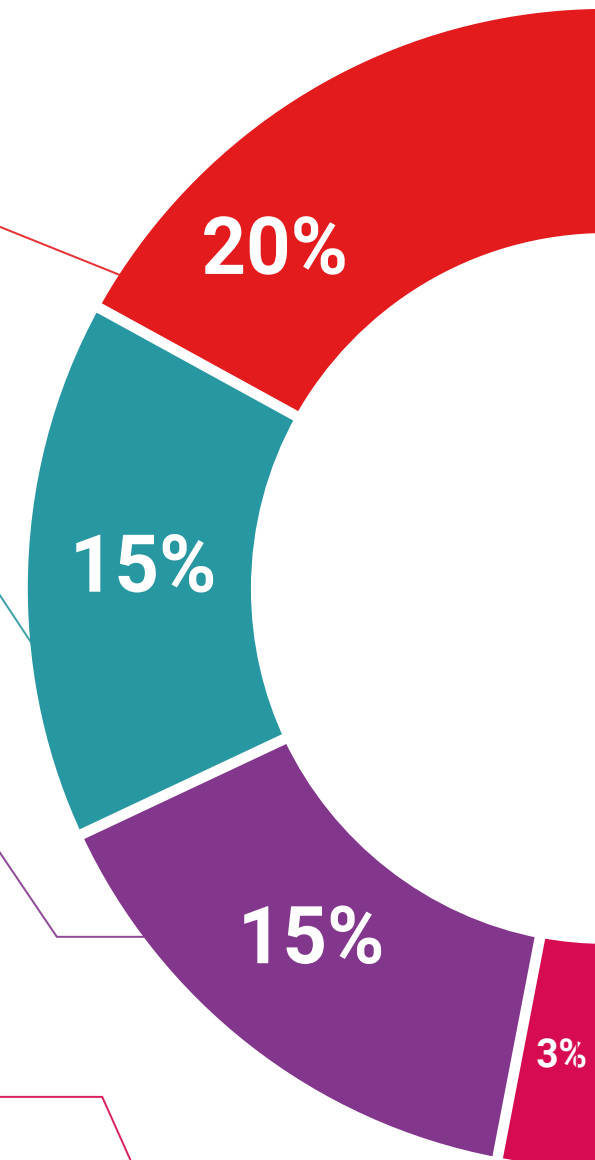
We present the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge. This unique training system for presenting multimedia content was awarded by Microsoft as a "European Success Story".

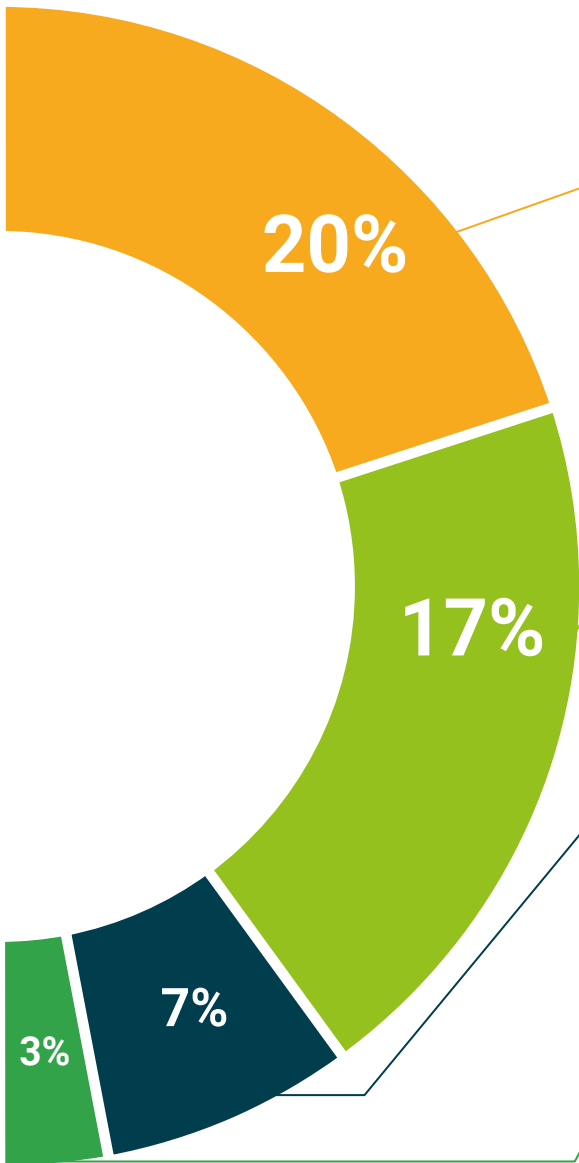


### Additional Reading

By participating in this course you will have access to a virtual library where you will be able to complement and keep your training up-to-date with the latest articles on the subject, consensus documents, international guidelines...

An invaluable resource that you will be able to use even when you finish your course with us.





#### Learning from an expert

The observation of a course performing a task is the most effective way of learning. It is called Learning from an expert: a proven way to reinforce knowledge and recall what has been learned. For this reason, we include this type of learning in our course classes.

There is scientific evidence suggesting that observing third-party experts can be useful. Learning from an expert strengthens knowledge and memory, and generates confidence in our future difficult decisions.



#### Testing & Re-testing

We periodically evaluate and re-evaluate your knowledge throughout the program through assessment activities and exercises: so that you can see how you are achieving your goals.



#### Classes

There is scientific evidence suggesting that observing third-party experts can be useful. The so called *Learning from an expert* strengthens knowledge and memory, and generates confidence in our future difficult decisions



#### Quick Action Guides

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



# 06 Certificate

The **Postgraduate Certificate in Inflammatory Diseases Affecting the Macula, Retina, and Vitreous** guarantees you, in addition to the most rigorous and updated training, access to a Postgraduate Certificate issued by **TECH Technological University**.





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

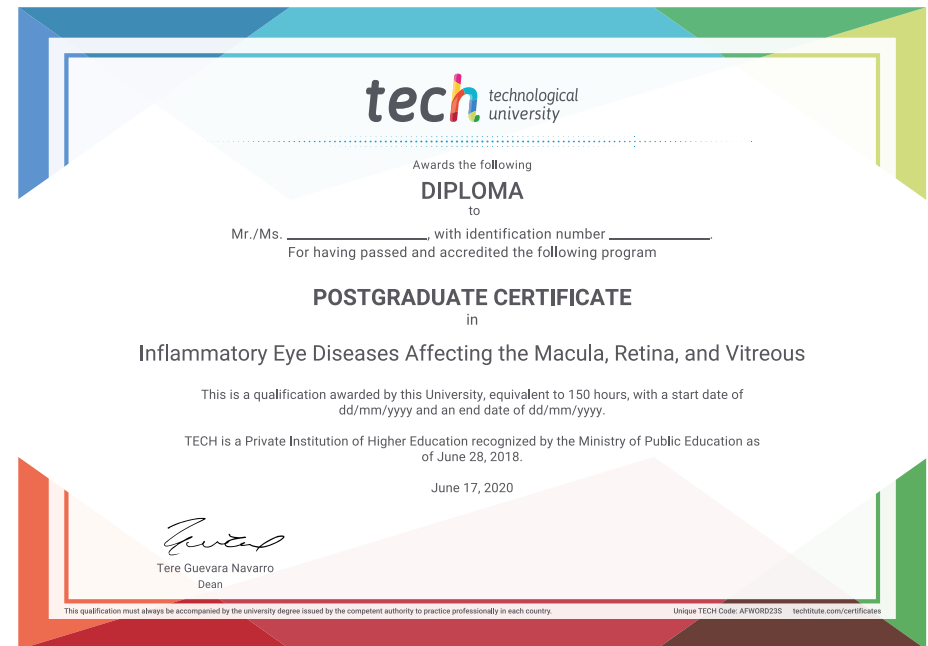
This **Postgraduate Certificate in Inflammatory Diseases Affecting the Macula, Retina, and Vitreous** contains the most complete and up-to-date scientific program on the market.

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

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

Title: **Postgraduate Certificate in Inflammatory Eye Diseases Affecting the Macula, Retina, and Vitreous**

Official Number of Hours: **150 hours**.



\*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  
development languages  
virtual classroom



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Inflammatory Eye Diseases  
Affecting the Macula, Retina,  
and Vitreous

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

# Postgraduate Certificate

Inflammatory Eye Diseases  
Affecting the Macula, Retina,  
and Vitreous

