

# Postgraduate Certificate

## Ocular Anatomy and Physiology for Nursing



## Postgraduate Certificate Ocular Anatomy and Physiology for Nursing

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

Website: [www.techtute.com/in/nursing/postgraduate-certificate/ocular-anatomy-physiology-nursing](http://www.techtute.com/in/nursing/postgraduate-certificate/ocular-anatomy-physiology-nursing)

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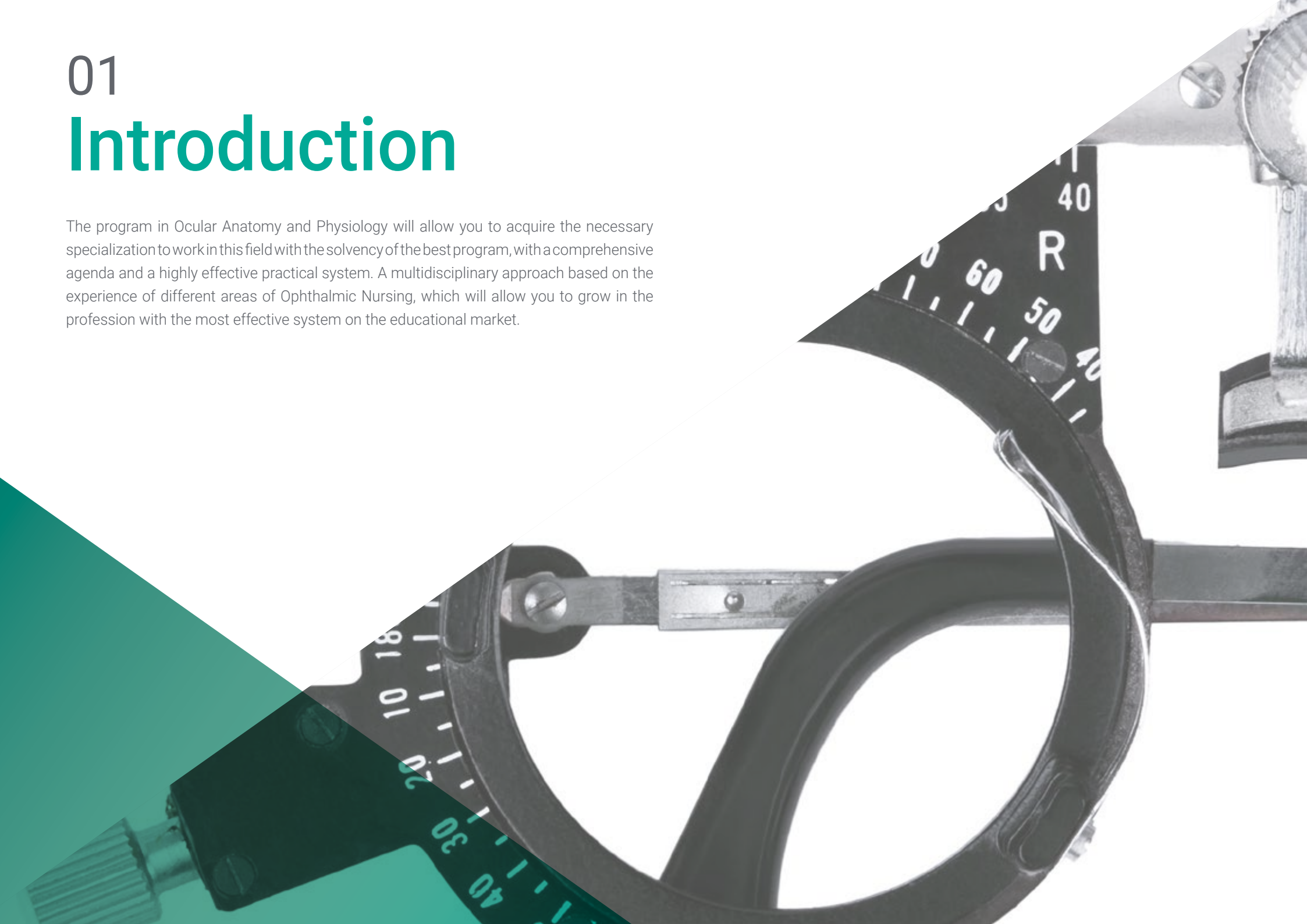
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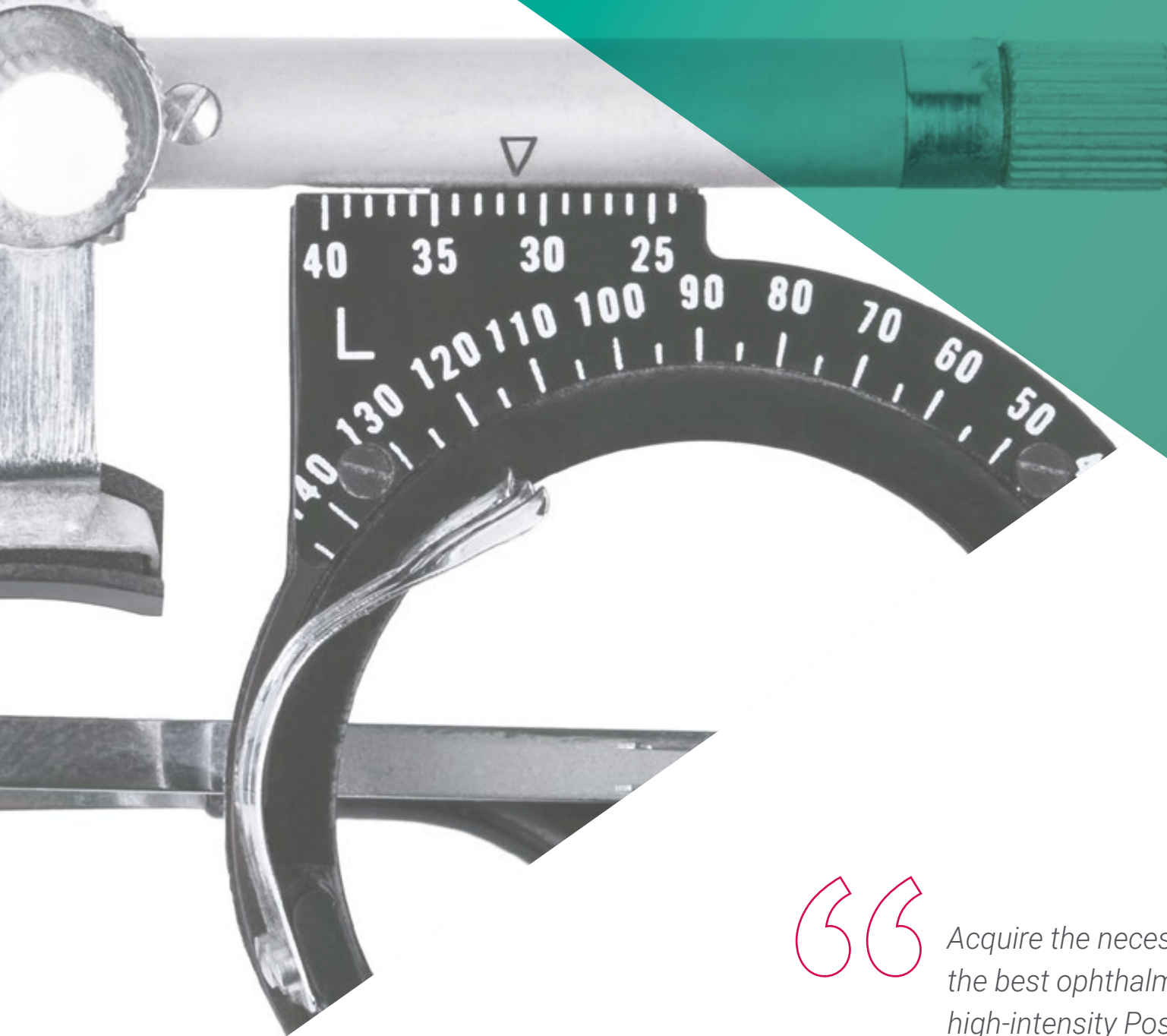
01

# Introduction

The program in Ocular Anatomy and Physiology will allow you to acquire the necessary specialization to work in this field with the solvency of the best program, with a comprehensive agenda and a highly effective practical system. A multidisciplinary approach based on the experience of different areas of Ophthalmic Nursing, which will allow you to grow in the profession with the most effective system on the educational market.







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*Acquire the necessary skills to work in the best ophthalmology units with a high-intensity Postgraduate Certificate”*

The work of the nursing professional is developed in multiple and different areas of intervention. From the patient's reception and accompaniment to the moment of treatment application and follow-up control, the nursing staff must have the capacity of a multifunctional worker.

This is also essential in the Ophthalmic Nursing The nursing professional requires a solid specialization that qualifies them in the work areas in which they are going to develop their work. This performance is also affected by the constant technical and technological advances in this field, which means that professionals must be attentive to all updates so as not to become outdated at great speed.

However, achieving this update requires a dedication that is not always compatible with real life.

In this Postgraduate Certificate, we have managed to reconcile the intensity of a very complete program, which covers all the essential aspects of the specialization of a professional in ophthalmic nursing, with the daily life of any professional, even those in practice.

Through a study approach that takes advantage of the most efficient teaching formulas and the most useful and versatile online systems, this Postgraduate Certificate is a highly qualified tool that will take you, step by step, at your own pace but without delay, to the most demanding educational goal.

A luxury program that we put within your reach with the best conditions of the educational market.

This **Postgraduate Certificate in Ocular Anatomy and Physiology for Nursing** contains the most complete and up-to-date scientific program on the market. Its most notable features are:

- ♦ The latest technology in online teaching software
- ♦ A highly visual teaching system, supported by graphic and schematic contents that are easy to assimilate and understand
- ♦ Practical cases presented by practising experts
- ♦ State-of-the-art interactive video systems
- ♦ Teaching supported by telepractice
- ♦ Continuous updating and recycling systems
- ♦ Autonomous learning: full compatibility with other occupations
- ♦ Practical exercises for self-evaluation and learning verification
- ♦ Support groups and educational synergies: questions to the expert, debate and knowledge forums
- ♦ Communication with the teacher and individual reflection work
- ♦ Content that is accessible from any fixed or portable device with an Internet connection
- ♦ Supplementary documentation databases are permanently available, even after the program



*With this Postgraduate Certificate you will be able to combine high intensity program with your personal and professional life, achieving your goals in a simple and real way"*

“*A Postgraduate Certificate that includes the most interesting and up-to-date contents in Ocular Anatomy and Physiology for Nursing with a novel and very useful approach*”

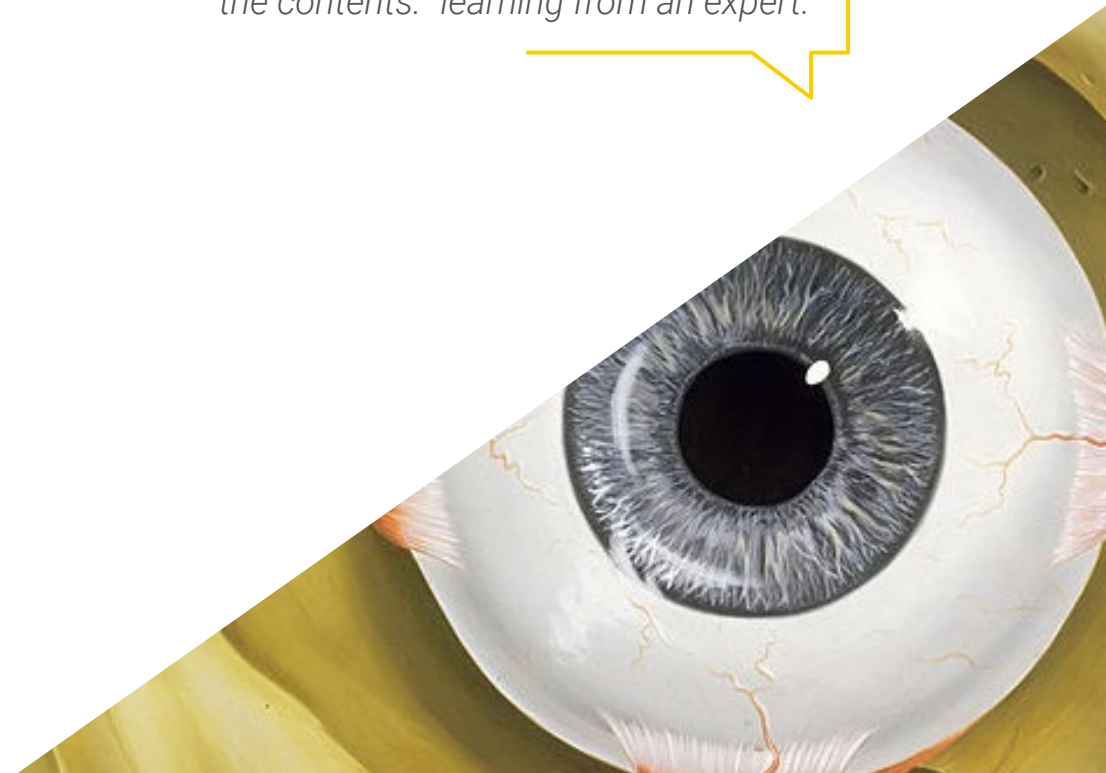
Our teaching staff is made up of professionals from different fields related to this specialty. This ensures that the intended educational updating objective is achieved. A multidisciplinary team of professionals, trained and experienced in different environments, who will develop the theoretical knowledge in an efficient way, but above all, they will bring their practical knowledge from their own experience to the program: one of the differential qualities of this program.

This mastery of the subject is complemented by the effectiveness of the methodology used in the design of this Postgraduate Certificate in Ocular Anatomy and Physiology for Nursing. Developed by a multidisciplinary team of experts it integrates the latest advances in educational technology. In this way, you will be able to study with a range of comfortable and versatile multimedia tools that will give you the operability you need in your education.

The design of this program is based on Problem-Based Learning: an approach that views learning as a highly practical process. To achieve this remotely we will use telepractice: With the help of an innovative interactive video system, and learning from an expert will be able to acquire the knowledge as if you were actually dealing with the facing you are learning about. A concept that will allow you to integrate and fix learning in a more realistic and permanent way.

*The learning of this Postgraduate Certificate is developed through the most advanced didactic means in online teaching to guarantee that your effort will have the best possible results.*

*Our innovative telepractice concept will give you the opportunity to learn through an immersive experience, which will provide you with a faster integration and a much more realistic view of the contents: “learning from an expert.”*



# 02 Objectives

The objective of this program is to provide nursing professionals with the necessary knowledge and skills to perform their activity in the field of Ophthalmology. Through a work approach that is totally adaptable to the student, this Postgraduate Certificate will progressively help the student to acquire the skills that will propel them to a much higher professional level.





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*Become one of the most sought-after professionals of the moment, with this Postgraduate Certificate in Ocular Anatomy and Physiology for Nursing"*



## General Objectives

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- ♦ Specialize quality nurses to offer high-level ophthalmic nursing care
- ♦ Acquire knowledge and skills that will enable nurses to practice their profession autonomously within the field of ophthalmic nursing

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*A boost to your CV that will give you the competitiveness of the best prepared professionals in the labor market"*





## Specific Objectives

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- ♦ Update students' knowledge of the anatomy and physiology of the eyeball in the master's program
- ♦ Know the anatomy, histology, physiology, neurophysiology and biochemistry of the visual system and the process of vision. Provide and expand on previous knowledge of how the organ responsible for vision functions
- ♦ Go through each and every one of the elements that make up our eye in an interactive way, by means of images, photographs and videos



03

# Course Management

For our course to be of the highest quality, we are proud to work with a teaching staff of the highest level, chosen for their proven experience. Professionals from different areas and fields of expertise that make up a complete, multidisciplinary team. A unique opportunity to learn from the best.



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*An impressive teaching staff, made up of professionals from different areas of expertise, will be your teachers during the course: a unique opportunity not to be missed”*



## Management



### **Mr. Medina Andana, Francisco Javier**

- University Diploma in Nursing from Virgen del Rocio University (2000- 2003)
- Operating Room Manager
- University Diploma in Nursing from the University of Seville, Spain. He has given and received numerous courses and congresses, mainly in ophthalmic surgery
- Member of the Spanish Society of Ophthalmic Nursing

## Professors

### **Mr. López-Brea Sica, Israel**

- Degree in Nursing: European University of Madrid
- Degree in Law Complutense University of Madrid
- Cardenal Cisneros University College (incomplete)
- Ophthalmology courses and congresses
- Responsible for Surgery, sterilization and maintenance of the Institute of Advanced Ophthalmology (IOA Madrid)



04

# Structure and Content

The contents of this Postgraduate Certificate have been developed by the different experts on this course with a clear purpose: to ensure that our students acquire each and every one of the necessary skills to become true experts in this field.

A complete and well-structured program will take you to the highest standards of quality and success.





“A comprehensive teaching program, structured in well-developed teaching units, oriented towards learning that is compatible with your personal and professional life”



## Module 1. Ocular Anatomy and Physiology

- 1.1. Eyeball
  - 1.1.1. Outer Layer
    - 1.1.1.1. Cornea
    - 1.1.1.2. Sclera
    - 1.1.1.3. Sclerocorneal Limbus
  - 1.1.2. Middle or Vascular Layer
    - 1.1.2.1. Iris
    - 1.1.2.2. Ciliary Body
    - 1.1.2.3. Choroid
  - 1.1.3. Inner or Neurosensory Layer
    - 1.1.3.1. Retina
    - 1.1.3.2. Vitreous Humor
- 1.2. Lens
  - 1.2.1. Description and Characteristics
  - 1.2.2. Morphological
  - 1.2.3. Phenomenon of Accommodation
- 1.3. Conjunctive
  - 1.3.1. Description and Characteristics
  - 1.3.2. Layers of the Conjunctiva
- 1.4. Eyelids
  - 1.4.1. Description and Characteristics
  - 1.4.2. Description of the Layers of the Eyelids
- 1.5. Lacrimal System
  - 1.5.1. Secretory Lacrimal System
  - 1.5.2. Excretory Lacrimal System





- 1.6. Ocular Orbit
  - 1.6.1 Description
  - 1.6.2 Orbital Openings
  - 1.6.3 Structure of the Orbital Bone
- 1.7. Eye Muscles
  - 1.7.1 Description
  - 1.7.2 Different Eye Muscles
  - 1.7.3 Muscle Action
- 1.8. Optical Route
  - 1.8.1 Optic Nerve
  - 1.8.2 Optic Chiasm
  - 1.8.3 Optical Ribbons
  - 1.8.4 Visual Centers
  - 1.8.5 Optical Radiation
  - 1.8.6 The Visual Cortex
- 1.9. Vascularization of the Eyeball
  - 1.9.1 Eyeball Arteries
  - 1.9.2 Eyeball Veins
- 1.10. Eyeball Innervation
  - 1.10.1 Description
  - 1.10.2 Different Ocular Nerves
  - 1.10.3 Neuro-Ophthalmology
  - 1.10.4 Image Formation

# 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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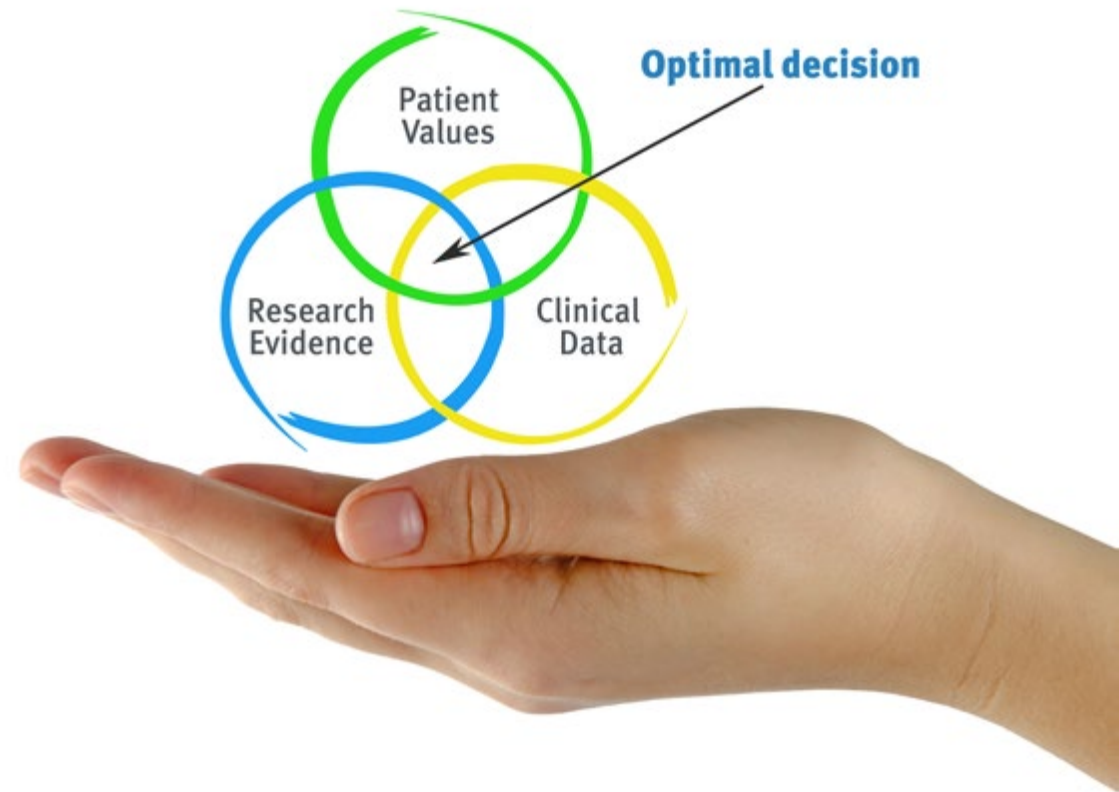
*Discover Relearning, a system that abandons conventional linear learning, to take you through cyclical teaching systems: a way of learning that has proven to be extremely effective, especially in subjects that require memorization"*



## At TECH Nursing School we use the Case Method

In a given situation, what should a professional do? 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. Nurses learn better, faster, and more sustainably over time.

*With TECH, nurses can experience a learning methodology 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, in an attempt to recreate the real conditions in professional nursing 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. Nurses 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 nursing professional to better integrate knowledge acquisition into the hospital setting or primary care.
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 case studies with a 100% online learning system based on repetition combining a minimum of 8 different elements in each lesson, which is a real revolution compared to the simple study and analysis of cases.

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





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

With this methodology we have trained more than 175,000 nurses with unprecedented success in all specialities regardless of practical workload. 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 really specific and precise.

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



#### Nursing Techniques and Procedures on Video

We introduce you to the latest techniques, to the latest educational advances, 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 them as many times as you want.



#### Interactive Summaries

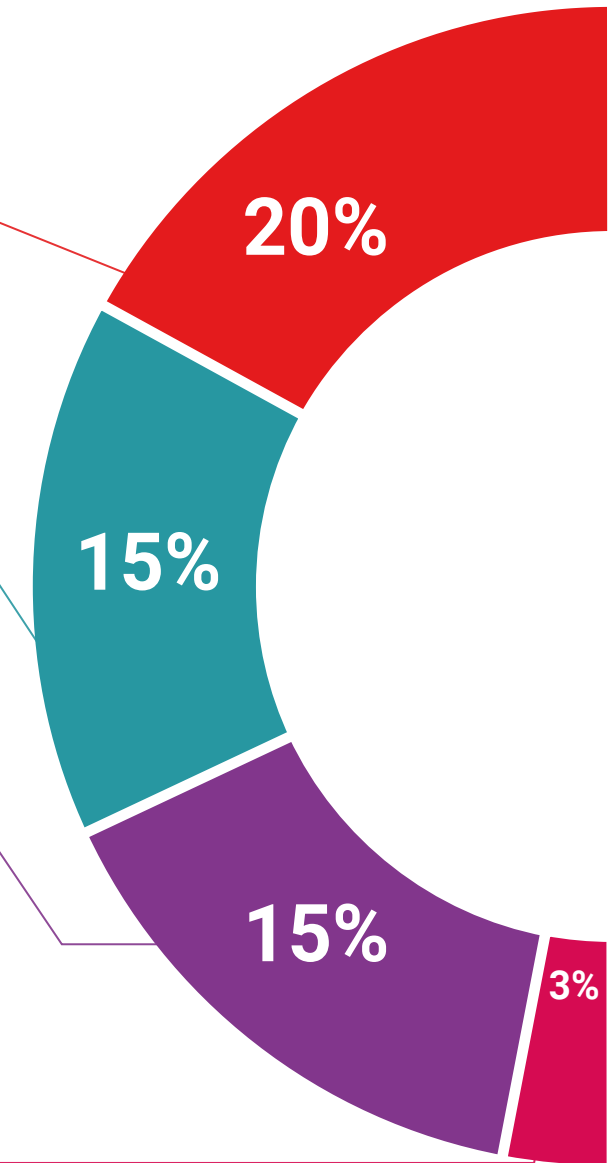
The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

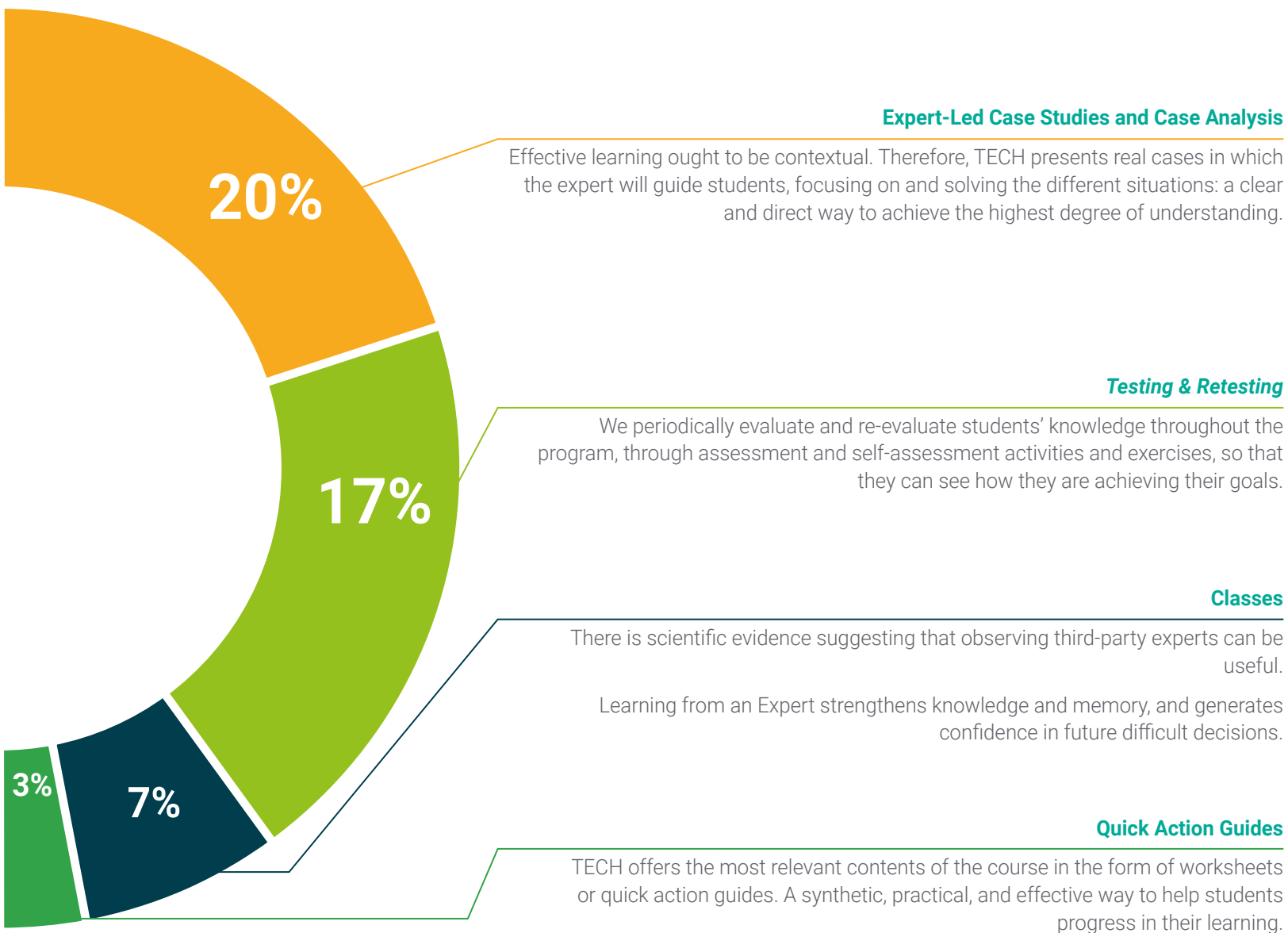
This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



#### 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.





# 06 Certificate

The Postgraduate Certificate in Ocular Anatomy and Physiology for Nursing guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate 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 Certificate in Ocular Anatomy and Physiology for Nursing** 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** via tracked delivery\*.

The certificate 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 Ocular Anatomy and Physiology for Nursing**

Official N° of Hours: **150 h.**



\*Apostille Convention. In the event that the student wishes to have their paper certificate issued with an apostille, TECH EDUCATION will make the necessary arrangements to obtain it, at an additional cost.



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